

English-French and French-English

The Project Gutenberg EBook of English-French and French-English

dictionary of the motor car, cycle, and boat, by Frederick Lucas

This eBook is for the use of anyone anywhere at no cost and with

almost no restrictions whatsoever. You may copy it, give it away or

re-use it under the terms of the Project Gutenberg License included

with this eBook or online at www.gutenberg.org

Title: English-French and French-English dictionary of the motor car, cycle, and boat

Author: Frederick Lucas

Release Date: October 29, 2012 [EBook #41217]

Language: English

Character set encoding: ASCII

*** START OF THIS PROJECT GUTENBERG EBOOK ENGLISH-FRENCH DICTIONARY OF MOTOR CAR ***

Produced by Marcia Brooks, Bibimbop, Hugo Voisard and the Online Distributed Proofreading Team at <http://www.pgdp.net>
(This file was produced from images generously made available by The Internet Archive)

Transcriber's Note: Bold text is denoted by =equal signs=. A more

detailed note is located at the end of this book.

Note de transcription: Le texte en gras est entoure par =le signe egal=. Une note plus detailee se trouve a la fin du volume.

ENGLISH-FRENCH AND FRENCH-ENGLISH

DICTIONARY

OF THE

MOTOR CAR, CYCLE AND BOAT

ENGLISH-FRENCH AND FRENCH-ENGLISH
DICTIONARY
OF THE
MOTOR CAR, CYCLE, AND BOAT
BY

FREDERICK LUCAS
NEW IMPRESSION

[Illustration: Printer's logo]

London

E. & F. N. SPON, LIMITED, 67 HAYMARKET

New York

SPON & CHAMBERLAIN, 123 LIBERTY STREET

1915

ALL RIGHTS RESERVED

PREFACE

The object of this work is to assist those interested in the motor industry and pastime to read the foreign technical literature devoted to

the subject. I have translated into the respective languages the technical terms used in the various journals and the catalogues of the

leading English and French makers. The work embodies all the component

parts of the vehicles and machinery at present on the market, and should

therefore be of service to the user, the manufacturer, and the patent

agent.

The technical terms which are peculiar to cycles are printed in italics.

FREDERICK LUCAS.

9 GRACECHURCH STREET,

LONDON, E.C.

CONTENTS

PAGE

ENGLISH-FRENCH 1

FRENCH-ENGLISH 95

DICTIONARY

OF THE

MOTOR CAR, CYCLE, AND BOAT.

This text was converted to LaTeX by means of **GutenMark** software (version Jul 12 2014).

The text has been further processed by software in the iTeX project, by Bill Cheswick.

Contents

1	ENGLISH-FRENCH.	1
2	B	4
3	C	13
4	D	25
5	E	30
6	F	34
7	G	39
8	H	43
9	I	46
10	J	48
11	K	49
12	L	50
13	M	54
14	N	57
15	O	59
16	P	61

17 Q	67
18 R	68
19 S	72
20 T	82
21 U	87
22 V	88
23 W	90
24 Y	94
25 Z	95
26 FRENCH-ENGLISH.	96
27 B	101
28 C	107
29 D	118
30 E	121
31 F	126
32 G	129
33 H	133
34 I	134
35 J	135
36 L	136
37 M	139
38 N	142
39 O	143

40 P	144
41 Q	152
42 R	153
43 S	160
44 T	164
45 U	171
46 V	172
47 W	176
48 Y	177
49 Z	178
50 LONDON: PRINTED BY WILLIAM CLOWES AND SONS, LIMITED, GREAT WINDMILL STREET, W., AND DUKE STREET, STAMFORD STREET, S.E.	179
51 A SHORT LIST OF	180
52 PUBLISHED BY	181
53 AGRICULTURE.	182
54 ARCHITECTURE AND BUILDING.	184
55 ARTILLERY.	188
56 AVIATION.	189
57 BRIDGES, ARCHES, ROOFS, AND STRUCTURAL DESIGN.	191
58 CEMENT AND CONCRETE.	194
59 CIVIL ENGINEERING.	198
60 CURVE TABLES.	202

61 DICTIONARIES.	204
62 DOMESTIC ECONOMY.	206
63 DRAWING.	208
64 EARTHWORK.	210
65 ELECTRICAL ENGINEERING.	211
66 FOREIGN EXCHANGE.	219
67 GAS AND OIL ENGINES.	221
68 GAS LIGHTING.	223
69 HISTORICAL AND BIOGRAPHICAL.	225
70 HOROLOGY.	227
71 HYDRAULICS AND HYDRAULIC MACHIN- ERY.	228
72 INDUSTRIAL CHEMISTRY AND MANUFAC- TURES.	231
73 INTEREST TABLES.	236
74 IRRIGATION.	237
75 LOGARITHM TABLES.	239
76 MARINE ENGINEERING AND NAVAL AR- CHITECTURE.	241
77 MATERIALS.	244
78 MATHEMATICS.	246
79 MECHANICAL ENGINEERING.	249
80 METALLURGY.	254
81 METRIC TABLES.	257
82 MINERALOGY AND MINING.	258

83 MODELS AND MODEL MAKING.	261
84 ORGANISATION.	263
85 PHYSICS.	265
86 PRICE BOOKS.	267
87 RAILWAY ENGINEERING AND MANAGEMENT.	269
88 MUNICIPAL ENGINEERING.	272
89 STRUCTURAL DESIGN.	275
90 TELEGRAPH CODES.	276
91 WARMING AND VENTILATION.	277
92 WATER SUPPLY.	279
93 WORKSHOP PRACTICE.	281
94 USEFUL TABLES.	286
95 MISCELLANEOUS.	289
96 LONDON: PRINTED BY WILLIAM CLOWES AND SONS, LIMITED.	292
97 End of the Project Gutenberg EBook of English- French and French-English dictionary of the mo- tor car, cycle, and boat, by Frederick Lucas	294
98 Section 1. General Terms of Use and Redistribut- ing Project Gutenberg-tm electronic works	296
99 Section 2. Information about the Mission of Project Gutenberg-tm	303
100Section 3. Information about the Project Guten- berg Literary Archive Foundation	304

Chapter 1

ENGLISH-FRENCH.

Accelerator Accelérateur.

Accelerator control gear Mouvement de commande d'accélérateur.

Accelerator pedal Pedale d'accélérateur.

Accelerator rod Tige d'accélérateur.

Accelerator rod spring Ressort de tige d'accélérateur.

Accelerator rod washer Rondelle de tige d'accélérateur.

Accelerator sector, or quadrant Secteur d'accélérateur.

Accelerator shaft Arbre d'accélérateur.

Accessories Accessoires.

Accident Accident.

Accumulator Accumulateur.

Accumulator cap Bouchon d'accumulateur.

Acetylene gas Gaz acetylene.

Acetylene lamp Lanterne à acetylene.

Acetylite Acetylite.

Active material Matière active.

Adhesion Adhesion.

Adjust the ball-bearings, to Ajuster les roulements a billes.

Adjustable bearings Coussinets ajustables.

Adjustable cone bearings Coussinets a cones réglables.

Adjustable cup bearings Coussinets a cuvettes réglables.

Adjustable seat Siege ajustable.

Adjusting cone Cone de réglage.

Adjusting nut Ecrou de réglage.

Adjustment Reglage.

Advance, sparking Avance a l'allumage.

Air chamber Chambre a air.

Air chimney Tube de prise d'air; cheminee
d'aspiration.

Air inlet pipe Tube de prise d'air.

Air lever Manette d'admission d'air.

Air nozzle for carburetter Tuyere de carburateur.

Air piston Piston a air.

Air port Prise d'air.

Air pump Pompe a air.

Air tight Etanche a l'air.

Air tube Chambre a air.

Air valve Soupape a air.

Alcohol Alcool.

Alight, to Descendre.

Aluminium Aluminium.

Amateur Amateur.

Ammeter Amperemetre.

Amperage Amperage.

Ampere Ampere.

Angle bar Corniere.

Angle plate Equerre.

Anneal, to Recuire.

Apply the brake, to Freiner; serrer le frein.

Apron Tablier.

Arbor shaft Cardan.

Arbor shaft system of Transmission a Cardan.
transmission.

Arm sling Brassiere.

Armature Induit.

Artillery wheel Roue d'artillerie.

Ascent, steep Montee rapide.

Asbestos Amiante.

Asbestos cloth Toile d'amiante.

Asbestos cord Corde d'amiante.

Asbestos millboard Carton d'amiante.

Asbestos paper Papier d'amiante.

Asbestos washer Rondelle d'amiante.

Ash Frene.

Automatic Automatique.

Axle Essieu; axe.

Axle arm Fusee d'essieu.

Axle box Boite a graisse.

Axle seat Portee de calage.

Chapter 2

B

Back balance, crank Contrepoids de vilebrequin.

Backbone Corps.

Back fire Allumage premature; choc en arriere.

Back fork Fourche arriere.

Back fork stays Tirants de la fourche arriere.

Back forks, end of Pattes arriere.

Back hub Moyeu arriere.

Back hub adjusting cone Cone de reglage du moyeu arriere.

Back hub chain ring Pignon de roue arriere.

Back hub fixed cone Cone fixe du moyeu arriere.

Back kick Choc en arriere.

Back mudguard Garde-boue arriere.

Back mudguard stays Tirants du garde-boue arriere.

Back pedal, to Contre-pedaler.

Back-peddalling brake Frein a contre-pedalage.

Back pressure Contre-pression.

Back rim Jante de la roue arriere.

Back stay Tube montant arriere.

Back step Marchepied d'arriere.

Back tyre { Bandage de la roue arriere.

{ Pneumatique de la roue arriere.

Back wheel Roue arriere.

Back wheel spindle nuts Ecrous de moyeu arriere.

Back wing Aile d'arriere.

Badge Insigne.

Baffle plate Contre-plaque.

Baffles, arranged as En chicanes.

Bag Sac.

Balance gear Mouvement differentiel.

Balance weight Contre-poids.

Ball Bille.

Ball bearing axle Essieu a billes.

Ball bearing axle arm nut Ecrou d'essieu a billes.

Ball bearing axle washer Rondelle d'essieu a billes.

Ball bearing thrust Butee a billes.

Ball bearings Coussinets a billes.

Ball for axle arm Bille pour fusee d'essieu.

Ball for carburetter Bille pour carburateur.

Ball for oil pump Bille pour pompe a huile.

Ball, governor Boule de regulateur.

Ball head Tete a billes.

Ball joint Joint a rotule.

Ball lever Levier a boule.

Ball race Rangee de billes.

Ball race cup Cuvette a billes.

Ball race of back axle Cuvette arriere d'essieu a billes.

Ball race of front axle Cuvette avant d'essieu a billes.

Ball valve Soupape a bille.

Band Collier; bande.

Band brake Frein a bande; frein a collier;

frein a enroulement.

Bank up the corners of the track, Relever les virages de la piste.
to

Ball bearing axle Essieu a billes.

Bar of iron Barre de fer.

Base Socle; base.

Battery Batterie.

Beaded edge of tyre cover Talon; bourrelet.

Beam Traverse; poutrelle.

Beam (breadth of boat) Largeur au maitre-bau.

Bearing Coussinet.

Bearing block Palier.

Bearing keep Chapeau de palier.

Bearing spring Ressort de suspension.

Beech Hetre.

Bell Timbre; grelot; sonnette;

clochette.

Bell crank Manivelle a cloche.

Bell, dome of Calotte de timbre.

Belt Courroie.

Belt butt Crupon pour courroie.

Belt, cemented Courroie collee.
Belt, edged Courroie a talon.
Belt fastener Agrafe de courroie.
Belt, flat Courroie plate.
Belt grease Enduit pour courroies.
Belt lace Lacet; lanier.
Belt, round Courroie ronde.
Belt, sewn Courroie cousue.
Belt, slack Courroie lache.
Belt, slipping of Glissement de la courroie.
Belt, stretching of Allongement de la courroie.
Belt, tight Courroie tendue.
Belt tightener Tendeur pour courroie.
Belt, to lengthen the Allonger la courroie.
Belt, to shorten the Raccourcir la courroie.
Belt, to throw off the Debrayer la courroie.
Belt, to tighten the Tendre la courroie.
Belt, to untwist the Detordre la courroie.
Belt, twist Courroie torse.
Belt, twisted Courroie tordue.
Belt, V Courroie en V.
Bending strain Effort de flexion.
Bent handle bar Guidon cintre.
Bevel gear Engrenage conique.
Bevel pinion Pignon d'angle.
Bevel wheel Roue d'angle.
Bevelled Biseaute.
Bicycle Bicyclette.

Bicyclist Bicycliste.

Billing spanner Clef americaine a molette

“Billing.”

Bike Becane.

Birchwood Bouleau.

Blacklead Mine de plomb.

Blacksmith Forgeron.

Blade (coil) Lame de bobine.

Blades, fork Fourreaux de fourche.

Bleriot lamp Phare Bleriot.

Blind flange Bride borgne.

Blind nut Ecrou borgne.

Block Bloc; cale; sabot.

Block chain Chaine a blocs.

Blowpipe Chalumeau.

Blow through tap Robinet de purge.

Body Caisse.

Body spring Ressort d'essieu.

Boil (on cover) Hernie; gercure.

Boiler Chaudiere.

Boiler, flash Generateur a vaporisation
instantanee.

Bolt Boulon.

Bolt (of door) Verrou.

Bolt and nut Boulon et ecrou.

Bonnet Entourage; capot couvre-moteur.

Bonnet door Porte d'entourage.

Bore Alesage.

Boss Moyeu.

Bottom bracket Pedalier.

Bottom head cone Cone du raccord inferieur avant.

Bottom head cup Raccord inferieur avant.

Bottom stay Tube de la fourche arriere.

Bottom tube Tube inferieur.

Bowden wire Cable flexible Bowden.

Box Boite.

Box spanner Clef a douille.

Box-wood Buis.

Bracket, lamp Porte-lanterne.

Bracket seat Strapontin.

Brad Clou a parquet.

Bradawl Poincon.

Braid Tresse.

Brake Frein.

Brake adjusting clip Collier de tube de frein.

Brake band Collier de frein; bande de frein.

Brake detachable clip Collier de levier de frein.

Brake guide Guide de frein.

Brake holder Serre-frein.

Brake horse-power Force en chevaux effectifs;
puissance au frein.

Brakeless Sans frein.

Brake lever Levier de frein.

Brake lever connecting rod Bielle de levier de frein.

Brake lever catch Cliquet du levier de frein.

Brake lever handle spring Ressort du cliquet de levier de

frein.

Brake pedal spring Ressort de rappel de pedale de
frein.

Brake plunger Tube de frein.

Brake pulley Poulie de frein.

Brake rod Tige de frein.

Brake rod end Chape de tige de frein.

Brake rod fork Fourchette de tige de frein.

Brake screw Boulon, vis de frein; vis de
mecanique.

Brake segment Segment de frein.

Brake spoon, or shoe Patin, sabot de frein.

Brake spring Ressort de frein.

Brake, to apply the Serrer le frein.

Brake tube Tube de frein.

Brake and clutch lever connecting Bielle de commande de de-
brayage
rod et de frein.

Brass Cuivre jaune; laiton.

Braze, to Braser.

Breadth Largeur.

Break-down Panne.

Break down, to Rester en panne.

Breaking strain Charge de rupture.

Bridge Pont.

Bridge, back fork Tirant de la fourche arriere.

Bridge piece Culotte.

Bridge piece for exhaust Culotte d'echappement.

Bridge piece for inlet valve Culotte d'aspiration.

Bright parts Parties polies.

Broad Large.

Brougham Coupe.

Brush, dynamo Balai.

Bucket seat Baquet.

Buckled wheel Roue voilee; roue tordue.

Buffer Tampon.

Buffer guide Boisseau de butoir.

Buffer head Tete de butoir.

Buffer spring Ressort de choc.

Bulb (glass) for accumulator cap Ampoule verre pour bouchon d'accumulateur.

Bulge (on cover) Hernie; gercure.

Bulb of horn Poire de cornette.

Bulk, in En vrac.

Bumpy road Route cahotante.

Burn well, to Bruler bien.

Burner Bruleur.

Burner cage Lanterne.

Burner case Monture des bruleurs.

Burner cup Cuvette de bruleur.

Burner for acetylene lamp Bec.

Burner guard, or hood Capuchon de bruleur.

Burner mount Monture de bruleur.

Burner needle Aiguille pour bruleur.

Burner nipple Bec de bruleur.

Burner tank Lampe.

Burst, to Eclater; crever.

Burst (tyre) Crevaison.

Bush Douille; bague.

Bushed Fourre; garni.

Butt-ended spokes Rayons renforces.

Butterfly nut Ecrou a oreilles; papillon.

Butterfly valve Soupape a papillon; papillon.

Button Bouton.

Butt-welded Soude par rapprochement.

Chapter 3

C

Cab Cab.

Cam Came.

Cam, ignition Came d'allumage.

Cam shaft Arbre a cames.

Cam shaft cover Couvercle d'arbre a cames.

Cam shaft roller Galet d'arbre a cames.

Camel hair belt Courroie poil de chameau.

Candle Bougie.

Candle lamp Lanterne a bougie.

Canopy, removable Ballon demontable; couvercle
demontable.

Canvas Toile.

Canvas for repairing cover Toile dissolutionnee; toile
gommee.

Cap Chapeau; bouchon.

Cap for oil hole Bouche-trou.

Cap for steering connecting rod Bouchon de bielle de commande
de

direction.

Cap for water tank Bouchon d'emplissage de reservoir d'eau.

Cap of draw link Chapeau de tension.

Capacity (of tank) Contenance.

Car Voiture.

Car wheel Roue de voiture.

Carbide Carbure de calcium.

Carburetter Carburateur.

Carburetter connecting rod Bielle de commande de carburateur.

Carburetter float Flotteur de carburateur.

Carburetter float cap Bouchon de dessus de carburateur.

Carburetter float needle Aiguille de carburateur.

Carburetter float spindle Axe de flotteur de carburateur.

Carburetter hand regulator Regulateur a main de carburateur.

Carburetter lever spring Ressort de rappel de levier de carburateur.

Carburetter nipple Bec de carburateur.

Carburetter piston Piston de carburateur.

Carburetter piston rod end Chape de piston de carburateur.

Carburetter piston spring Ressort de piston de carburateur.

Carburetter valve Soupape de carburateur.

Carburetter valve spring Ressort de la soupape de carburateur.

Cardan Cardan.

Cardan joint Joint Cardan.

Carpet Tapis.

Carriage builder Carrossier.

Carriage clock Horloge de voiture.
Carriage road Route carrossable.
Carriage work Carrosserie.
Carrier, luggage Porte-bagage.
Carrier tricycle Tricycle porteur.
Carrying axle Essieu porteur.
Carter gear case Carter.
Carvel built A franc bord.
Case Gaine; caisse.
Cased Blinde.
Case harden, to Cemente.
Casing Blindage.
Cash prizes Prix en especes.
Cast iron Fonte.
Cast steel Acier fondu.
Castor oil Huile de ricin.
Catalytic Catalytique.
Catalysis Catalyse.
Catch Cliquet; verrou.
Catch for bonnet door Verrou d'entourage.
Catch for change speed lever Verrou de levier de changement de vitesse.
Caulk, to Calfater.
Cedar Cedre.
Cell Element.
Celluloid Celluloid.
Cement (for tyres) Colle; mastic.
Centaur cylinder Cylindre-culasse.

Centering gauge Trusquin a centrer.

Centering ring Bague de centrage.

Central driving tricycle Tricycle a chaine centrale.

Centre to centre D'axe en axe.

Centre bearing Palier central.

Centrifugal pump Pompe centrifuge; pompe turbine.

Chain Chaîne.

Chain adjustment Tension de chaîne.

Chain adjusting rod; long end; Bielle de tension de chaîne;
small end grand cote; petit cote.

Chain, block Chaîne a blocs.

Chain block Bloc de chaîne.

Chain bolt and nut Boulon et écrou de chaîne.

Chain brush Brosse a chaîne.

Chain, double roller Chaîne a doubles rouleaux.

Chain guard Garde-chaîne; couvre-chaîne.

Chain link Maillon.

Chain ring lock nut Contre-écrou du pignon arriere.

Chain ring, back hub Pignon de la roue arriere.

Chain, roller Chaîne a rouleaux.

Chain roller Rouleau de chaîne.

Chain, single roller Chaîne a simples rouleaux.

Chain wheel Grand pignon.

Chain wheel Roue de chaîne.

Chamois leather Peau de chamois.

Champion Champion.

Championship Championnat.

Change speed connecting rod Bielle de changement de vitesse.

Change speed gear Changement de vitesse.

Change speed lever Levier de changement de vitesse.

Change speed lever catch Cliquet du levier de changement de vitesse.

Change speed lever catch fork Chape du cliquet de levier de changement de vitesse.

Change speed lever rod Tige de levier de changement de vitesse.

Change speed lever spring Ressort de levier de changement de vitesse.

Change speed rod Tringle de changement de vitesse.

Change speed shaft Arbre de changement de vitesse.

Channel iron Fer en U.

Charge, to Charger.

Chassis Chassis.

Check valve Soupape de retenue.

Checker (in a race) Pointeur.

Cheek Flasque.

Chestnut Chataigner.

Chinese lantern Lampion; lanterne venitienne.

Chrome leather Cuir chrome.

Chronometer Chronometre.

Circuit Circuit.

Circuit, primary Circuit primaire.

Circuit, secondary Circuit secondaire.

Circuit, short Court circuit.

Circuit, to close a Fermer un circuit.

Circulation pump Pompe de circulation.

Clamp Bride; piece d'attache; presse
patte.

Clamp for fastening motor Piece d'attache du moteur.

Clasp brake Frein a machoires.

Clean Propre.

Clean, to Nettoyer.

Clear, in the Dans l'oeuvre.

Clearance Jeu.

Clinch of the rim Crochets de la jante.

Clincher built A clin.

Clip Collier de serrage.

Clip brake Frein a machoires.

Clip for spring Bride de ressort.

Close the circuit, to Fermer le circuit.

Closure tyres Caoutchoucs auto-reparables.

Cloth for cleaning Torchon.

Club Cercle; societe; club.

Club costume Costume social.

Club, cycling Societe velocipedique.

Club run Sortie officielle.

Clutch Embrayage.

Clutch cone Cone d'embrayage.

Clutch cone spring Ressort de cone d'embrayage.

Clutch fork Fourchette de debrayage.

Clutch lever Levier d'embrayage; yatagan.

Clutch lever pedal Pedale a levier de debrayage.

Clutch lever roller Galet de debrayage.

Clutch shaft Arbre d'embrayage.

Clutch shaft spring Ressort d'arbre d'embrayage.

Clutch sleeve Manchon.

Clutch spring Ressort d'embrayage.

Coach, house Remise.

Cobble stones Pave.

Coefficient of friction Coefficient de friction.

Coil Bobine; serpentín.

Coil, electric Bobine électrique.

Cog Dent; denture.

Cog wheel Roue dentée; pignon.

Cog wheel, larger Grand pignon.

Cog wheel, smaller Petit pignon.

Collapse, to (of tyres) S'affaïsser; crever.

Collar Bague.

Collar for digger Bague de biellette de rappel de
tige.

Collision Collision.

Colour Couleur.

Combustion chamber Chambre de combustion; chambre
d'explosion.

Come off, to Se détacher.

Commutator Distributeur d'allumage;
distributeur de courant;
collecteur.

Commutator brush Balai de distributeur d'allumage.

Commutator brush spring Ressort de balai de distributeur.

Commutator bush Bague pour corps de distributeur
d'allumage.

Commutator cam shaft Axe portant la came de distributeur d'allumage.

Commutator glass Glace de couvercle de distributeur d'allumage.

Compass Boussole.

Compensating spring Ressort compensateur.

Compression relief Decompression.

Compression relief lever Manette de commande; manette de compression; decompresseur.

Compression stroke Temps de compression.

Compression tap Robinet de compression.

Compression valve Soupape de compression.

Compression valve spring Ressort de soupape de compression.

Concealed hinge Charniere avec cache-fente.

Condenser Condenseur.

Conductor Conducteur.

Cone Cone.

Cone bearings Coussinets a cones.

Cone clutch Embrayage a cones.

Connecting plug Interrupteur a cheville.

Connecting rod Bielle.

Connecting rod end Tete de bielle.

Consolation race Course de consolation.

Constant level carburetter Carburateur a niveau constant.

Contact Contact.

Contact breaker Trembleur; allumeur; rupteur.

Contact breaker spring Ressort de trembleur.

Contact screw Vis de contact.

Containing case Bac.
Contour map Carte avec profils.
Control Commande.
Controlling lever Manette de commande.
Controlling wheel Roue de commande de marche.
Convex Bombe.
Cool, to Rafraichir; refroidir.
Cooler Refroidisseur.
Cooler, beehive Refroidisseur nid d'abeilles.
Cooling Refroidissement.
Cooling flanges Ailettes.
Cooling surface Surface de refroidissement.
Copper Cuivre rouge.
Copper plated Cuivre.
Copper wire Fil de cuivre.
Cord Corde; cordon.
Core, iron Noyau de fer.
Cork float Flotteur en liege; macaron.
Cork handle Poignee en liege.
Corner Coin.
Corner plate Gousset.
Cost of the trip Frais de voyage.
Cotter Clavette.
Cotton waste Dechets de coton.
Countershaft Arbre intermediaire.
Countersunk head Tete fraisee; tete noyee.
Counterweight Contre-poids.
Cover (lid) Couvercle.

Cover (tyre) Enveloppe; bandage.

Cover for oil hole Bouche-trou.

Cover 80 miles in a day, to Couvrir 80 milles dans la journee.

Cover of contact breaker Couvercle d'allumage.

Covers wired on Pneumatiques a tringles.

Covers with beaded edges Pneumatiques a talon.

Cow hide Peau de vache.

Crack rider Coureur de premiere force.

Crank Manivelle; vilebrequin.

Crank bracket Pedalier.

Crank bracket adjusting collar Collier de reglage des cuvettes de pedalier.

Crank bracket axle Axe du pedalier.

Crank bracket barrel Cuvette de pedalier.

Chain bolt and nut Boulon et ecrou de chaine.

Crank bracket cotter pin Clavette de pedalier.

Crank case Carter; bati de moteur.

Crank case lubricator Graisseur de bati.

Crank cotter Clavette de manivelle.

Crank disc Plateau de manivelle.

Crank, left Manivelle gauche.

Crank lever Levier coude.

Crank pin Bouton de manivelle.

Crank, right Manivelle droite.

Crank shaft Vilebrequin; arbre a manivelle.

Crank starting handle Manivelle de mise en marche.

Crank washer and nut Rondelle et ecrou de manivelle.

Crate Caisse a claire-voie.

Crate, folding Caisse pliante.

Cross frame Cadre en croix.

Cross head Crosse.

Cross section Coupe transversale.

Cross shaft Croisillon.

Crossways Carrefour.

Crown, front fork Couronne de fourche.

Cup, bottom head Raccord inferieur avant.

Cup (of bearings) Cuvette.

Cup, top head Raccord superieur avant.

Cup valve Soupape en champignon renverse.

Current Courant.

Current, high tension Courant de haute tension.

Current, low tension Courant de basse tension.

Current, strength of Force du courant.

Curtain Rideau.

Curve Courbe.

Curved frame Chassis cintre.

Cushioned seat Siege a coussins.

Custom house Douane.

Custom house officer Douanier.

Customs pass Passavant.

Customs receipt Quittance douaniere.

Customs seal Plomb de la douane.

Customs ticket Carte de douane.

Cut off valve Soupape de detente.

Cut out Coupe-circuit.

Cycle Velocipede; velo.

Cycle, to Monter a velo.

Cycling Velocipedie.

Cyclist Velocipediste; cycliste.

Cyclometer Compteur; cyclometre.

Cylinder Cylindre.

Cylinder full (of mixture) Cylandree.

Cylinder head Culasse.

Cylinder head cover Couvercle de culasse.

Cylinder head stay end Chape de tige entretoise de
culasse.

Chapter 4

D

D shackle Menotte.

D valve Tiroir a coquille.

Damage Dommage.

Damage, to Endommager.

Danger board Poteau avertisseur.

Dangerous hill Descente dangereuse.

Dash board Planche pare-crotte.

Day's stage Etape journaliere.

Dead centre Point mort.

De-clutch, to Debrayer.

Deflate, to Degonfler.

Delivery pipe Tuyau de refoulement.

Densimeter Densimetre.

Design, to Etudier.

Detachable Demontable; detachable.

Detachable crank Manivelle detachable.

Detailed plan Plan de detail.

Detour Detour.

Devil Bequille.

Diagonal Diagonal, -e.

Diagonal tube Tube diagonal.

Diagram Diagramme; schema.

Diagrammatic arrangement Disposition schematique.

Diameter Diametre.

Diaphragm Diaphragme.

Diaphragm piston Piston a air.

Diaphragm spring Ressort de piston a air.

Differential brake Frein de differentiel.

Differential brake bolt Axe du levier de frein de
differentiel.

Differential brake lever end Chape de frein de differentiel.

Differential brake pedal Pedale de frein de differentiel.

Differential brake segment Segment de frein de differentiel.

Differential brake spring Ressort de rappel de frein de
differentiel.

Differential gear Mouvement differentiel.

Differential gear box Boite de differentiel.

Diffuser Diffuseur.

Digger fork Fourchette de rappel de tige.

Digger rod Tige de rappel; culbuteur.

Digger spring Ressort de rappel de tige.

Direct drive on top speed Grande vitesse en prise directe.

Direct spokes Rayons directs.

Disc Disque.

Discharge, to Decharger.

Disengage, to Debrayer.

Disengaging lever Levier de débrayage.

Dish, to Emboutir.

Dismantling Démontage.

Dismount, to Descendre.

Distance Distance.

Distance between axles Ecartement des essieux.

Distance run Distance parcourue.

Distance, to Distancer.

Distributor Distributeur.

Divided axle Essieu brisé.

Dog clutch Embrayage à griffes; manchon à griffes.

Dome of bell Calotte de timbre.

Door Porte; portière.

Door handle Bouton de porte.

Door lock Loqueteau de portière; serrure de portière.

Door pillar Montant de porte.

Dotted line Ligne pointillée.

Double ball bearings Coussinets à double filet.

Double branch spanner Clef à deux branches.

Double butted spokes Rayons renforcés aux deux bouts.

Double driving gear Mouvement différentiel.

Double ended spanner Clef double.

Double helical gear Engrenage à chevrons.

Double male screwed Filetage double mâle.

Double roller chain Chaîne à doubles rouleaux.

Down tube Tube diagonal.

Dragon tongue Dard.

Drain tap Robinet de vidange.

Draught Courant d'air.

Draught of water when empty Tirant d'eau a vide.

Draught of water when loaded Tirant d'eau en charge.

Drawlink (chain) Tension de chaine.

Drawlink cap Chapeau de tension.

Dray Camion.

Dress guard Garde-chaine; garde-jupe.

Dressing room Vestiaire.

Drill Foret.

Drill a hole, to Faire un trou.

Drip feed lubricator Graisseur compte-gouttes.

Drip tap Purgeur continu.

Drive, to Faire marcher.

Driver Chauffeur; conducteur.

Driving axle Essieu moteur.

Driving power Force motrice.

Driving pulley Poulie de transmission; poulie
motrice.

Driving shaft Axe de volant; axe moteur.

Driving shaft Arbre moteur.

Driving wheel Roue motrice.

Drop counter Compte-gouttes.

Drop shackle Huit.

Drum Tambour.

Drum brake Frein a tambour.

Dry battery Pile seche.

Dust Poussiere.

Dust cap tube Tube pare-poussiere.

Dust guard Pare-poussiere.

Dust proof Etanche a la poussiere.

Dust-shield, gauze Grille metallique; grille
anti-poussiere.

Duty free Exempt de douane; en franchise.

Duty, to pay Payer les droits d'entree.

Dynamo Dynamo.

Dynamo brush Balai de dynamo.

Dynamo wheel Volant de dynamo.

Chapter 5

E

Easy gradient Pente faible.

Easy running Tres roulant.

Ebonite Ebonite.

Ebony Ebene.

Eccentric Excentrique.

Eccentric rod Tige d'excentrique.

Eccentric sheave Disque d'excentrique.

Eccentric strap Collier d'excentrique.

Efficiency of motor Rendement du moteur.

Elbow Coude.

Electric Electrique.

Electric coil Bobine electrique.

Electric ignition Allumage electrique.

Electric wire Fil electrique.

Elliptic spring Ressort elliptique; ressort a pincette.

Elm Orme.

Elm, grey Orme blanc.

Elm, rock Orme noir.

Emery cloth Toile d'emer.

Emery paper Papier d'emer.

Enamel Email.

Enamel, to Emailler.

Enamelled plate Plaque emaillee.

End elevation Elevation de bout.

End of back forks Pattes arriere.

Endless Belt Courroie sans fin.

Endurance Endurance; fond.

Engine Moteur.

Engine shaft Arbre de moteur.

Entrance fee Droit d'entree.

Entrance for a race Inscription pour une course.

Erratic steering Direction erratique.

Exhaust Echappement.

Exhaust box Reservoir d'echappement; pot
d'echappement.

Exhaust fork Fourchette d'echappement.

Exhaust fork guide Guide de fourchette d'echappement.

Exhaust fork roller Galet de fourchette d'echappement.

Exhaust fork roller bolt Axe de fourchette porte-galet
d'echappement.

Exhaust fork roller spring Ressort de fourchette porte-galet
d'echappement.

Exhaust gas Gaz de la decharge; gaz brule;
gaz d'echappement.

Exhaust lift cam Came d'échappement.
Exhaust pipe Tube d'échappement.
Exhaust port Lumiere d'échappement.
Exhaust pot Pot d'échappement.
Exhaust steam Vapeur de decharge.
Exhaust stroke Temps d'échappement.
Exhaust tubing Tuyauterie d'échappement.
Exhaust valve Soupape d'échappement.
Exhaust valve cap Bouchon de soupape d'échappement.
Exhaust valve flange Bride d'échappement.
Exhaust valve fork Fourchette d'échappement.
Exhaust valve guide Guide de soupape d'échappement.
Exhaust valve lift Taquet de soulevement de soupape d'échappement.
Exhaust valve lift rod Tige de soulevement d'échappement.
Exhaust valve spring Ressort de soupape d'échappement.
Exhaust valve stem Tige de soupape d'échappement.
Exhibition Exposition.
Exhibitor Exposant.
Expanding pulley Poulie extensible.
Expansion brake Frein a expansion.
Expansion of steam Detente de vapeur.
Expired, the patent has Le brevet est dans le domaine public.
Explosion Explosion.
Explosion chamber Chambre d'explosion.
Explosion stroke Temps d'explosion.
Explosive mixture Melange tonnant.

Extinguisher Extincteur.

Extra nuts Ecrous de rechange.

Extra price Plus-value.

Extra strong tube Tube renforce.

Eye bolt Piton.

Chapter 6

F

Fabric (of tyre cover) Toile.

Face of slide valve Glace du tiroir.

Faced in the lathe Dresse au tour.

Fall, to Tomber.

Fan Ventilateur.

Fast Rapide.

Fasten, to Attacher.

Fastener for bonnet Fermeture d'entourage.

Fat spark Etincelle chaude.

Feat Exploit.

Feat of skill Tour d'adresse.

Feat of strength Tour de force.

Feather Clavette.

Feed Alimentation; debit.

Feed heater Rechauffeur.

Feed pipe Tube d'alimentation.

Female cone Cone femelle.

Ferrule Frette; virole.

Ferry Bac.

Ferry, to cross the Passer le bac.

Fibre Fibre.

Fibre cam Came fibre.

Fibre, insulation Fibre isolante.

File Lime.

File, to Limer.

Fillet Conge.

Filter Filtre.

Finger post Poteau indicateur.

Fir Sapin.

Fire tube Carneau.

Firing nipple Bouchon d'inflamateur.

Fitting Montage; agencement.

Fixed cone Cone fixe.

Fixed seat Siege fixe.

Flame guard Pare-flamme; capuchon de lanterne.

Flange Bride; collerette.

Flanged collar Bague a collerette.

Flanged shaft Arbre a plateaux.

Flap door Trappe.

Flap valve Clapet.

Flash boiler Generateur a vaporisation
instantanee.

Flask Flacon.

Flat, on the En palier.

Flexible wire Cable flexible.

Float Flotteur.

Float chamber Boite du flotteur; reservoir a flotteur.

Float wire Tige de flotteur.

Flooder Deversoir.

Flush head Tete affleuree.

Fluted rubber pedal Pedale a caoutchouc cannele.

Flying start Depart lance.

Fly wheel Volant.

Foil Clinquant.

Fold, to Plier.

Folding bicycle Bicyclette pliante.

Folding seat Strapontin.

Folding tricycle Tricycle compressible.

Foot Pied.

Footpath Sentier; trottoir.

Foot pump Pompe a pied.

Foot rest Appui-pieds; repose-pied.

Foot warmer Chaufferette.

Foot warmer (hot water) Bouillotte.

Force the pace, to Forcer le pas.

Fore-carriage Avant-train.

Forge Forge.

Forgings Ebauches.

Fork Fourche; fourchette.

Fork (of a road) Bifurcation.

Form, in good En bonne forme.

Forward and reverse lever Levier de changement de marche.

Forward and reverse lever rod pin Axe de levier de changement de

marche.

Forward movement Marche en avant.

Four cycle gas motor Moteur a quatre temps.

Four way coil Bobine quadruple.

Frame Cadre.

Frame Chassis.

Frames (boat) Membrures.

Frame switch Interrupteur de cadre.

Free wheel Roue libre.

*Free wheel, ratchet and pawl Roue libre a cliquet.*_
clutch_

Free wheel, roller clutch Roue libre a galet.

French chalk Talc.

Friction Frottement.

Friction clutch Embrayage a friction.

Friction plate Plateau de friction.

Friction roller Galet de friction.

Friction, to reduce the Reduire le frottement.

Front apron } Tablier d'avant.

Front board }

Front driver Machine a roue motrice devant.

Front elevation Elevation de face.

Front fork Fourche avant.

Front fork blades Fourreaux de fourche avant.

Front fork crown Couronne de fourche.

Front hub Moyeu avant.

Front hub adjusting cone Cone de reglage du moyeu avant.

Front hub fixed cone Cone fixe du moyeu avant.

Front mudguard Garde-boue avant.

Front mudguard stays Tirants du garde-boue avant.

Front rim Jante de la roue avant.

Front seat Siege d'avant.

*Front steerer Tricycle a roue directrice
devant.*

Front steering bar Barre d'accouplement de direction.

Front tyre Pneumatique }

Bandage } de la roue avant.

Caoutchouc }

Front view Vue de face.

Front wheel Roue avant.

Front wheel spindle nuts Ecrous du moyeu avant.

Front wing Aile d'avant.

Full on, to put the brake Serrer le frein a bloc.

Funnel Entonnoir.

Funnel, with fine strainer Entonnoir avec toile metallique
fine.

Funnel, with strainer Entonnoir avec grille.

Chapter 7

G

Gaiter, tyre Manchon guetre pour pneu.

Garage Garage.

Gas Gaz.

Gas bag Ballon; poche a gaz.

Gas lever Manette d'admission de gaz.

Gas pipe to motor Tube d'alimentation.

Gas pliers Pinces a gaz.

Gas-tight Etanche au gaz.

Gasket Tresse; limande de garniture;
garcette.

Gauge, measuring Jauge

Gauge, pressure Manometre.

Gauze dust shield Grille metallique.

Gauze filter Diaphragme; filtre en toile
metallique.

Gear Multiplication; developpement;
engrenage.

Gear box Boite de mouvement; boite
d'engrenages.

Gear box bearings Coussinets de boite de mouvement.

Gear case Garde-chaîne; Carter;
couvre-engrenages.

Gear, double-driving Mouvement différentiel.

Gear, in Engrene.

Gear shaft Arbre de transmission; arbre de
mouvement.

Gear, to throw into Embrayer.

Gear, to throw out of Debrayer.

Gear up, to Multiplier.

Geared bicycle, ordinary Bicycle multiplie.

Gearing, high Multiplication forte.

General plan Plan de l'ensemble.

General view Ensemble.

German silver Maillechort.

Gib Contre-clavette.

Gill Ailette.

Gimlet Vrille.

Gland Presse-étoupe.

Glass Glace; cristal; verre.

Globe joint Joint à rotule.

Goal, to reach the Gagner le poteau.

Goggles Lunettes de route.

Governed Commande.

Governor Regulateur.

Governor ball Boule de regulateur.

Governor ball fork Chape de boule de regulateur.

Governor cam Came de regulateur.

Governor hammer Marteau de came de regulateur.

Governor hammer shaft Arbre porte-marteau de regulateur
de moteur.

Governor lever Levier de regulateur.

Governor spring Ressort de regulateur.

Governor wheel Roue de regulateur; volant de
regulateur.

Gradient Rampe; pente.

Gradometer Indicateur de pentes.

Grasshopper spring Ressort demi-pincette.

Gravel Gravier.

Grease Graisse.

Grease, Stauffer } Graisse consistante.

Grease, thick }

Grease injector Seringue de graissage.

Green light Feu vert.

Green sheet (for lantern) Lampe verte.

Grid Grillage.

Grind, to Roder; meuler.

Groove Cannelure; rainure.

Grooved pulley Poulie a gorge.

Grooved shaft Arbre a rainures.

Grooved wheel Roue a gorge; volant a gorge.

Grounds, petrol Lie; sediment.

Gudgeon pin Goujon.

Guide Guide; toc; coulisseau.

Guide for clutch cone Toc d'embrayage.

Guide for governor lever Toc de levier de regulateur.

Gun clip Porte-fusil.

Gunwale Plat-bord.

Gusset Gousset.

Gutter Caniveau.

Chapter 8

H

Hair seat Siege en crin.

Half-section Demi-coupe.

Half-speed shaft Arbre a cames.

Half-time gear Mouvement de reduction a 1/2.

Hammer Marteau.

Hand control spring Ressort d'appareil de commande d'allumage.

Hand lever Levier a main.

Hand pump Pompe a main.

Hand pump lubricator Coup de poing.

Handicap Course proportionnelle.

Handle Manette; poignee; manche.

Handle bar Guidon.

Handle bar stem Tube plongeur du guidon.

Handle bar switch Poignee d'allumage du guidon.

Handle of oil pump Poignee de la pompe a huile.

Hard pumped (tyre) Gonfle a bloc.

Hardened steel Acier trempe.

Head and handlebar clip Collier de serrage du guidon.

Head and handlebar clip bolt and Boulon et ecrou du collier du
nut_ guidon._

Headlight Phare.

Headlock Arret de direction.

Head locking nut Contre-ecrou de direction.

Head prop Goujon de capote.

Head socket Douille de direction.

Header (of tubular boiler) Collecteur.

Heat, the final La preuve finale; la belle.

Heat, the first La premiere epreuve.

Heats, to run three Faire trois epreuves.

Heavy car Voiture lourde.

Heavy oil Petrole lourd.

Heavy road Route penible.

Height Hauteur.

Hemlock Hemlock.

Hemp cord Corde chanvre.

Hexagon-head bolt Boulon a 6 pans.

Hickory Hickory.

High speed trembler Rupteur a grande vitesse.

Hill climbing trial Course de cote.

Hill, to mount a Gravir une cote.

Hilly Accidente; montueux.

Hind wheel Roue de derriere.

Hinge Charniere; gond; compas.

Hire, to Louer.

Hired car Voiture de louage.

Hitch Accroc; anicroche.

Holding down bolt Boulon d'ancrage.

Hole Trou.

Hollow Creux; creuse.

Hollow rim Jante creuse.

Hollow tyre Caoutchouc creux.

Honeycomb radiator Radiateur nid d'abeilles.

Hood Capote; capuchon.

Hook Crochet.

Hook bolt Boulon a mentonnet.

Hooter Corne d'appel.

Horn Corne.

Horn bracket Porte-trompette.

Horn, bulb of Paire de cornet.

Horn handle Poignée en corne.

Hot air inlet Prise d'air chaud.

House, to Remiser.

Hub Moyeu.

Hub brake Frein au moyeu.

Chapter 9

I

Igniter Allumoir; appareil d'allumage.

Ignition Allumage.

Ignition cam Came d'allumage.

Ignition, electric Allumage electrique.

Ignition lever Manette d'allumage.

Ignition, magneto Allumage magneto-electrique;
allumage par magneto.

Incandescent ignition Allumage a incandescence.

Inch Pouce.

Inclined water outlet Rampe de sortie d'eau.

Index (cursor) Curseur.

India-rubber Caoutchouc; gomme.

Induction coil Bobine d'induction.

Induction pipe Tube d'admission.

Induction valve Soupape d'admission.

Inflate, to Gonfler.

Injector Injecteur.

Inlet, petrol Orifice de remplissage.

Inlet valve Soupape d'admission; soupape d'aspiration.

Inlet valve cap Chapeau de soupape d'admission.

Inlet valve cotter Clavette de soupape d'admission.

Inlet valve flange Bride d'aspiration.

Inlet valve seat Siege de soupape d'admission.

Inlet valve spring Ressort de soupape d'admission.

Inlet valve stem Tige de soupape d'admission.

Inlet valve union Raccord d'aspiration.

Inn Auberge.

Inner tube Chambre a air.

Inspection plate Plaque de regard.

Insulate, to Isoler.

Insulation Isolation.

Insulator Isolateur.

Interchangeable parts Pieces interchangeables.

Intermediate shaft Arbre intermediaire.

Interruptor plug Interrupteur a cheville.

Introducer (of club member) Parrain.

Inverted or spray cone Cone renverse; champignon.

Iron Fer.

Ironmonger Quincaillier.

Iron tyred wheel Roue ferree.

Irregularities of the road Deformations de la route.

Chapter 10

J

Jack Verin; cric.

Japan, to Vernir.

Jersey Tricot de laine.

Jet condenser Condenseur a jet.

Jet, petrol Gicleur; bec.

Jockey pulley Poulie de tension.

Joint Joint.

Journal (of shaft) Tourillon.

Chapter 11

K

Keel Quille.

Keep Chapeau.

Kerbstone Pierre de rebord.

Key Clavette; clef.

Key, to Caler.

Key way Mortaise de clavette.

Kick back Choc en arriere.

Knapsack Sac.

Knife Couteau.

Knock A-coup.

Chapter 12

L

Label Etiquette.

Laced spokes Rayons tangents.

Lady cyclist Velocipediste.

Lady's bicycle Bicyclette de dame.

Lady's machine Machine de dame.

Lamp Lanterne.

Lamp bracket Porte-lanterne; porte-phare.

Lamp oil Huile a bruler.

Lamp side-lights Verres lateraux de lanterne.

Lamp stump or socket Douille de lanterne.

Landau Landau.

Landaulet Landaulet.

Landing place Debarcadere.

Lap (in a race) Tour de piste.

Lap-welded Soude par recouvrement.

Larch Meleze.

Latch Loquet.

Lattice girder Poutre en treillis.

Lead Plomb.

Leak, to Fuir.

Leakage Fuite.

Leather Cuir.

Leather seat Siege de cuir.

Leather top of saddle Cuir de selle.

Left crank Manivelle gauche.

Left handed screw Vis a filet gauche.

Left, to the A gauche.

Length available for carriage work Tablier.

Length between perpendiculars Longueur de tete en tete.

Length, to win by a Gagner d'une longueur.

Lens Lentille.

Level crossing Passage a niveau.

Lever Levier.

Lever brake Frein a levier.

Liable to duty Passible de droits.

Lift, valve Soulevement; pousoir.

Lifting jack Cric.

Light Lumiere.

Light (adj.) Leger, legere.

Light railway Voie legere.

Light vehicle Voiture legere.

Lignum vitae Gaiac.

Limousine Limousine.

Linch pin Clavette; esse.

Link Maillon; chainon.

Linoleum Linoleum.

Linseed oil, boiled Huile de lin cuite.

Live axle Essieu moteur.

Lock Serrure; loqueteau.

Lock nut Contre-ecrou.

Locksmith Serrurier.

Long commutator spring Ressort de rappel de distributeur.

Long distance race Course de fond.

Long frame Chassis long.

Longitudinal section Coupe longitudinale.

Loose nut Ecrou desserre; ecrou lache.

Loose road Chemin defonce.

Loose spoke Rayon desserre; rayon lache.

Loose tyre Caoutchouc decolle.

Loosen a nut, to Devisser un ecrou.

Loosen a screw, to Desserrer une vis.

Lorry Camion.

Lubricant Lubrifiant.

Lubricate, to Lubrifier; graisser.

Lubricating oil Huile a graisser.

Lubrication Graissage.

Hire, to Louer.

Lubricator Graisseur.

Lubricator ball seat Siege pour bille de graisseur.

Lubricator glass Glace de graisseur.

Lubricator pulley Poulie de graisseur.

Lubricator screw for wheel cap Vis graisseur pour chapeau d'essieu.

Lubricator tap Robinet pour alimentation de
graisseur.

Lubricator wheel Roue de commande de graisseur.

Lug Oreille.

Luggage Bagage.

Luggage carrier, handle bar Porte-bagage de guidon.

Luggage guard Galerie.

Luggage top Couvercle et galerie.

Luggage van Fourgon des bagages.

Chapter 13

M

Macadam Macadam.

Macadamised road Chaussee en empierrement.

Machine Machine.

Magnet Aimant.

Mahogany Acajou.

Main axle Essieu principal.

Main road Grande route.

Maker Fabricant.

Male cone Cone male.

Man's bicycle Bicyclette d'homme.

Map Carte; plan.

Maple Erable.

Maple, rock Erable dur.

Mask Masque.

Master patent Brevet principal.

Measurement over body Dimensions de la caisse.

Mechanically operated Commande mecaniquement.

Member (club) Societaire.

Membrane Membrane.

Mercury Mercure.

Mesh, to Engrener.

Metal Metal.

Metal polish Pate a polir.

Metalled road Route en pierres concassees.

Methylated spirits Alcool denature.

Mica Mica.

Mile, English Un mille anglais.

Milestone Borne.

Milled Mollete.

Milled edge nut Ecrou mollete.

Misfire Rate d'allumage.

Mixing Melange.

Mixing chamber Chambre de melange; boite de melange.

Mixing tube Tube melangeur.

Mixture Melange.

Morocco Maroquin.

Motive power Force motrice.

Motor Moteur.

Motor and gear Groupe moteur.

Motor bearings Coussinets de moteur.

Motor bicycle Motocyclette; bicyclette a moteur.

Motor boat Bateau a moteur.

Motor car Automobile.

Motor cycle Motocycle.

Motor cyclist Motocycliste.

Motor house Garage.

Motor in front Moteur a l'avant.

Motor launch Canot automobile.

Motor piston Piston de moteur.

Motor quadricycle Quadricycle a moteur.

Motor tandem Tandem a moteur.

Motor tricycle Motocycle; tricycle a moteur.

Motor under the seat Moteur sous le siege.

Mount, to Monter.

Mud Boue; crotte.

Mudguard Garde-boue; garde-crotte.

*Mudguard bridge Tirant des tubes montants
arriere.*

Mudguard stay Tirant de garde-boue.

Multiple lubricator Graisseur a departs multiples.

Multitubular radiator Radiateur multitubulaire.

Mushroom cap Bouchon a champignon.

Mushroom valve Soupape en champignon.

Chapter 14

N

Nail Clou.

Nail catcher Arrache-clous.

Name plate Plaque d'identite.

Narrow tread bracket Pedalier etroit.

Nave hoop Frette.

Neat's foot oil Huile de pieds de boeuf.

Neck plate, 4 slat Eventail a 4 branches.

Needle Aiguille.

Needle valve Pointeau.

Nip, to Pincer.

Nipping Pincage.

Nipple Bec; tetine.

Nipple, spoke Ecrou de rayon.

Noise Bruit.

Noiseless Silencieux.

Non-deflatable Indegonflable.

Non-side-slipping Anti-derapant.

Non-skidding Anti-derapant.

Non-skidding band Bande anti-derapante.

Non-skidding protecting cover Contre-enveloppe anti-derapante.

Non-stretching belt Courroie inextensible.

Non-trembler coil Bobine sans trembleur.

Notch Cran.

Notched quadrant Secteur dente.

Nozzle Tuyere.

Number Numero.

Number plate Plaque numerotee.

Nut Erou.

Chapter 15

O

Oak Chene.

Oak, live Chene vert; yeuse.

Oak, white Chene blanc.

Odometer Odometre.

Offset reducing coupling Manchon excentrique de reduction.

Oil Huile.

Oil bath Bain d'huile.

Oil can Burette.

Oil cup Godet a huile.

Oil funnel Entonnoir a huile.

Oil hole Trou de graissage.

Oil lamp Lanterne a huile.

Oil, lubricating Huile a graisser.

Oil pipe to crank case Tube de la pompe a huile au
moteur.

Oil pipe to pump Tube du reservoir a la pompe a
huile.

Oil pump Pompe a huile.

Oil reservoir } Reservoir a huile.

Oil tank }

Oil, to Huiler; graisser.

Oil way Gouttiere de graissage; rampe
d'huile.

Oiling Huilage.

Omnibus Omnibus.

Opening, exhaust Orifice d'echappement.

Operated Commande.

Option of purchase Faculte d'achat.

Order, to get out of Se detraquer.

Ordinary car Voiture courante.

Ordinary geared bicycle Bicycle multiplie.

Otto cycle A quatre temps.

Outer cover of tyre Enveloppe.

Outlet Sortie; depart.

Over all Hors oeuvre.

Overflow pipe Tube de trop-plein.

Overhanging shaft Arbre en porte a faux.

Overheating Echauffement.

Overtake, to Depasser.

Oxide of lead Oxide de plomb.

Oxide of zinc Oxide de zinc.

Chapter 16

P

Pace Allure.

Pace, to go a good Aller bon train.

Pace, to increase the Accelerer.

Pace-maker Entraineur.

Pack, to Emballer; garnir.

Packing Emballage; garniture.

Packing collar for pump Bague de garniture pour pompe.

Padlock Cadenas.

Panel Panneau.

Para rubber Gomme de Para.

Parabolic reflector Reflecteur parabolique.

Paraffin Petrole lampant; paraffine.

Parcels van Voiture de livraison.

Passport Passeport.

Patch for repairing tyre Pastille pour reparation de pneu.

Patent Brevet d'invention.

Path, cycle Accotement; trottoir cyclable.

Pattern Modele; echantillon.

Paved road Route pavee.

Pavement Pave.

Pawl Linguet.

Peak, saddle Bec de selle.

Pedal Pedale.

Pedal adjusting cone Cone de reglage de pedale.

Pedal adjusting nut Ecrou de reglage de pedale.

*Pedal dust cap Couvercle anti-poussiereux de
pedale.*

Pedal fastening nut Ecrou d'axe de pedale.

Pedal gear Pedalier.

Pedal pin Axe de pedale.

Pedal rubber Caoutchouc pour pedales.

Pedal shaft Arbre de pedale.

Pedal washer Rondelle de pedale.

Performance Performance.

Permit Permis de circulation.

Petrol Essence; petrole.

Petrol, a supply of Une provision de petrole.

Petrol can Bidon.

Petrol cup Godet a petrole.

Petrol inlet Orifice de remplissage.

Petrol jet Gicleur.

Petrol pipe tap Robinet de tuyauterie a essence.

Petrol tank Reservoir a essence; reservoir a
petrole.

Petrol tank tap Robinet de reservoir a essence.

Petrol warmer Rechauffeur.

Petroleum Paraffine; petrole.

Petroleum lamp Lanterne a petrole.

Phaeton Phaeton.

Pin Goupille.

Pincers Tenailles.

Pinch, to (tyre) Pincer.

Pinching Pincage.

Pine Pin.

Pinion Pignon.

Pillar, seat Tige de selle.

Pin driver Chasse-goupille.

Pin extractor Tire-goupille.

Pipe from carburetter to mixing Tube du carburateur a la boite de

chamber melange.

Piping Tuyauterie.

Piston Piston.

Piston connecting rod Bielle de moteur.

Piston pin Axe de piston.

Piston rings Segments de piston.

Piston rod Tige de piston.

Pitch (screw-thread) Pas de vis.

Pitch pine Pitch-pin.

Pivot Pivot; tourillon.

Plan looking upwards Plan vu de dessous.

Planet wheel Roue planetaire.

Planetary member Satellite.

Planking Borde.

Plate Plaque.

Plate clutch Embrayage a plateaux.

Plate, to Nickeler.

Platinum Platine.

Platinum contact Contact platine.

Platinum contact on trembler Contact platine de ressort de
spring trembleur.

Platinum tipped Tete platinee.

Platinum tipped screw Vis platinee de contact.

Platinum tube Tube de platine.

Play Jeu.

Pliers Pinces.

Plotting scale Echelle de reduction.

Pneumatic Pneumatique.

Pneumatic tyre Caoutchouc pneumatique.

Points, sparking plug Points de la bougie.

Pole finder Indicateur de poles.

Pole, negative Pole negatif.

Pole piece Piece polaire.

Pole, positive Pole positif.

Polish, to Polir; astiquer.

Poncelet 1 H.P. = $\frac{3}{4}$ Poncelet.

Porcelain Porcelaine.

Post road Route postale.

Pouch, tool Sacoche.

Press, the La presse.

Pressed steel Acier embouti.

Pressure gauge Manometre.

Pricker Aiguille.

Primary shaft Arbre primaire.

Prize, to win a Gagner un prix.

Projecting shaft Arbre en porte-a-faux.

Projector Projecteur.

Prop Tirette; renfort.

Prop, fork Contrefourche.

Propelling power Force motrice.

Propeller Propulseur; helice.

Protecting band for tyre Protecteur de bandage; croissant
de protection.

Protecting cover Contre-enveloppe.

Protector Protecteur.

Public carriage road Grande route.

Pulley Poulie.

Pump Pompe.

Pump, air Pompe a air.

Pump bracket Support de pompe.

Pump bracket stud Goujon de support de pompe.

Pump clip Porte-pompe.

Pump connection Raccord de pompe.

Pump fan Roue a ailettes pour pompe.

Pump, foot Pompe a pied.

Pump, rotary Pompe rotative.

Pump, stirrup Pompe a etrier.

Pump, to (inflate) Gonfler.

Pump tube Tube de pompe.

Pump, tyre Pompe pour pneumatique.

Pump union Raccord de pompe.

Pump washer Rondelle pour pompe.

Pump with clapper valve Pompe a battant.

Puncture Perforation.

Puncture proof Imperforable.

Puncture, to Se perforer.

Punctured tyre Pneu perfore.

Purlin Panne.

Chapter 17

Q

Quadrant Secteur.

Quadricycle Quadricycle.

Quadruple gear wheel Roue quadruple.

Quadruplet Quadruplette.

Chapter 18

R

Race Course.

Racing car Voiture de course.

Racing machine Machine de course.

Racing man Coureur.

Rack Cremaillere.

Radiating fin } Ailette.

Radiating flange }

Radiator Radiateur.

Radiator stay Tirant de radiateur.

Ratchet Encliquetage; cliquet.

Ratchet wheel Roue a cliquet.

Rattan Rotin.

Rattle, to Claquer.

Rat-trap pedal Pedale a scie.

Raw hide Cuir vert.

Reaction spring Ressort de rappel.

Record, to make a Etablir un record.

Red light Feu rouge.

Reed (horn) Anche.

Reference mark Point de repere.

Refill Recharge.

Reflector Reflecteur.

Regulations Reglement de circulation.

Regulator Regulateur.

Relief valve Soupape de trop plein.

Removable Detachable; demontable.

Renew, to Renouveler.

Repair box Boite necessaire.

Repair outfit Necessaire de reparations.

Repair, to Reparer.

Repairer Mecanicien.

Repairs, to do Faire des reparations.

Re-rubbering Recaoutchouture.

Reservoir Reservoir.

Resin Resine.

Retard sparking Retard a l'allumage.

Re-tyring Recaoutchouture.

Reverse movement Marche arriere.

Reverse shaft Arbre de changement de marche.

Reverse shaft spring Ressort d'arbre de changement de marche.

Reversible handle bar Guidon reversible.

Reversing gear Changement de marche.

Reversing lever Levier de changement de marche.

Reversing thrust Butee de changement de marche.

Revolution Tour.

Revolution counter Compte-tours.

Revolving seat Siege tournant.

Ribbon road Route en lacets.

Rideable hill Cote praticable.

Rideable road Route praticable.

Rifle clip Porte-fusil.

Right crank Manivelle droite.

Right handed screw Vis a filet droit.

Right, go to the Prendre a droite.

Rim Jante; couronne.

Rim brake Frein sur jante.

Rimer Alesoir.

Ring Couronne; bague; anneau.

Rivet Rivet.

Rivet, to River.

Rivet, chain Tourillon de chaine.

Road Route; voie; chemin.

Road, bad Mauvaise route; voie impraticable.

Road book Routier.

Road broken up by traffic Chemin defonce par le roulage.

Road, carriage Route carrossable.

Road, good Bonne route.

Road map Carte routiere.

Road mender Cantonnier.

Roadster Bicyclette de route.

Roadway Chaussee.

Rod Tige.

Rod for brake lever Tige de levier de frein.
Rod for carburetter piston Tige de piston de carburateur
Rod for clutch pedal Tige de pedale d'embrayage.
Rod for differential brake Tige de frein de differentiel.
Rod for single cylinder Tige entretoise de culasse.
Roller Galet; rouleau.
Roller bearings Coussinets a rouleaux.
Roller chain Chaine a rouleaux.
Roof board Planche de toiture.
Rope Corde.
Rosewood Palissandre.
Rotary pump Pompe rotative.
Rotary valve Soupape rotative.
Rough (forging) Ebauche.
Round (on a track) Tour de piste.
Roundabout way Detour.
Row (radiator) Etage.
Rubber Caoutchouc.
Rubber pedal Pedale a caoutchouc.
Rubber sleeve of valve Tube caoutchouc de valve.
Runabout Voiturette.
Rust Rouille.
Rust, to Rouiller; se rouiller.
Rust, to remove Derouiller.
Rut Orniere.

Chapter 19

S

Saddle Selle.

Saddle clip Serrage de selle.

Saddle cover Couvre-selle.

Saddle, cushion Selle a coussins.

Saddle frame Cadre de selle.

Saddle lug Raccord du pilier de selle.

Saddle, peakless Selle sans bec.

Saddle pillar Pilier de selle.

Saddle, pneumatic Selle pneumatique.

Safety bicycle Bicyclette.

Safety bolt Boulon de securite.

Safety valve Soupape de surete.

Sal ammoniac Sel ammoniac.

Sand paper Papier de verre.

Satin wood Bois de satin.

Saw Scie.

Screen, rotary Ecran rotatif.

Screw Vis.

Screw brake Frein a vis.

Screw-cut, to Tarauder; fileter.

Screw driver Tournevis.

Screw for fastening Vis de fixation de vis de contact.

platinum-tipped screw

Screw for governor cam Vis de came de regulateur.

Screw for horn bracket Vis de collier de trompette.

Screw for piston pin Vis d'axe de piston.

Screw for starting bush Vis de clavetage de la douille de
mise en marche.

Screw for steering Vis pour direction.

Screw tap for burner Vis pointeau de bruleur.

Screw tap for burner tank Vis pointeau de lampe de bruleur.

Screw, to Visser.

Screw wrench Clef anglaise.

Scroll iron Main de ressort.

Seamless tube Tube sans soudure.

Seat Siege; place.

Seat board Planche du siege.

*Seat pillar Pilier de selle; tube de
selle.*

Secondary shaft Arbre secondaire.

Section iron Fer profile.

Sectional radiator Radiateur cloisonne.

Sector Secteur.

Sector support Support de secteur.

Security bolt with spring and cap Boulon de securite a ressort
et a

chapeau.

Security stud with wing nut Boulon de securite a oreilles.

Segment Segment.

Seize, to Gripper.

Seizing Grippement.

Self-propelling Automobile.

Self-sealing tyre Pneumatique auto-reparable.

Semi-racer Machine demi-course.

Set of wires Serie de fils.

Set screw Vis de rappel.

Shackle Menotte; esse.

Shade lines Traits de force.

Shaft Arbre.

Shearing strain Travail de cisaillement.

Sheet iron Tole de fer.

Sheeting Tolerie.

Shoe, brake Sabot de frein.

Shop Atelier.

Short frame Chassis court.

Shoulder Embase; epaulement.

Show Exposition.

Shutter Persienne; volet.

Side board Planche laterale.

Side door Portiere laterale.

Side elevation Elevation de cote.

Side entrance Entree sur le cote.

Side plate of link Lame de maillon.

Side rail for folding seat Accotoir de strapontin.

Side slip Derapage.

Side slip, to Deraper.

Side step Marchepied de cote.

Side thrust Poussee oblique.

Side timbers Ridelles.

Side view Vue de cote.

Sight feed lubricator Graisseur a debit visible;
compte-gouttes.

Silencer Silencieux; pot d'echappement.

Silver plated Plaque argent.

Single ended spanner Clef simple.

Single roller chain Chaine a simples rouleaux.

Single tube tyre Pneumatique a tube simple;
pneumatique colle.

Skid, to Patiner; deraper.

Slack tyre Pneumatique degonfle.

Sleeve Manchon; douille.

Slide Coulisse; glissiere.

Slide rod Tige de distribution.

Slide rod guide Coulisseau de tige de
distribution.

Slide valve Tiroir.

Slipping Glissement.

Small connecting rod Bielle.

Small plate Lame.

Smaller cog wheel Petit pignon.

Smear, to Enduire; barboter.

Snug Ergot.

Snug, with Ergote.

Socket Manchon; douille.

Socket, head Douille de direction.

Soft soap Savon noir.

Solder, to Souder.

Sole bar Longeron.

Sole piece Semelle.

Solid D'une seule piece.

Solid tyre Caoutchouc plein; bandage plein.

Solid wheel Roue pleine.

Spanner Clef.

Spanner for steering gear Clef pour rotules de direction.

Spare parts Pieces de rechange.

Spark Etincelle.

Spark gap Espace d'etincelle.

Sparking Allumage.

Sparking advance Avance a l'allumage.

Sparking advance lever Manette d'avance a l'allumage.

Sparking plug Bougie; inflammateur; tampon
d'allumage.

Sparking plug stud Goujon d'inflammateur.

Sparking retard Retard a l'allumage.

Specific gravity Gravite specifique.

Speed Vitesse.

Speed, at full A toute vitesse.

Speed gear box Boite de vitesse.

Speed indicator Indicateur de vitesse.

Spindle, pinion Axe de pignon.

Spindle, valve Tige de soupape.

Spiral spring Ressort a boudin.

Spirit Essence.

Spirit lamp Lampe a alcool.

Splash board Planche pare-crotte.

Split Fendu.

Split pin Goupille fendue.

Split pulley Poulie en deux pieces.

Split washer Rondelle Grover.

Spoke Rai; rayon.

Spoke nipple Ecrou de rayon.

Spoke tightener Serre-rayon.

Spoke washer Rondelle pour rais.

Sponge Eponge.

Spoon block Sabot forme cuiller.

Spoon brake Frein a sabot; frein a patin.

Sport Sport.

Sprag Bequille.

Sprag bracket Chape de bequille.

Sprag pulley Poulie de bequille.

Spray carburetter Carburateur a pulverisation.

Spray chamber Chambre de pulverisation; chambre de diffusion.

Spray nipple or nozzle Gicleur; bec.

Spray vaporiser Vaporisateur a pulverisation.

Sprayer Diffuseur; cone renverse; champignon de pulverisation.

Spring Ressort.

Spring box Boite a ressort.

Spring clutch Embrayage a ressort.

Spring frame Cadre antivibrateur.

Spring of burner valve Ressort de vis pointeau de
bruleur.

Spring of compression valve Ressort de soupape de compression.

Spring of contact breaker Ressort de trembleur.

Spring seat Siege a ressorts.

Sprocket axle support Support d'arbre de pignon de
chaîne.

Sprocket bolt Colonnette.

Sprocket shaft Arbre de pignon de chaîne.

Sprocket wheel Pignon de chaîne.

Sprocket wheel washer Rondelle de pignon de chaîne.

Spruce Spruce.

Spur gear Engrenage droit.

Spurt, to Donner un coup de collier.

Square coil Bobine carree.

Squared shaft Arbre a carre.

Stack of tubes Faisceau tubulaire.

Stage, day's Etape journaliere.

Staggered En quinconces.

Stand Support.

Stand (for spectators) Tribune.

Staple Gache; crampon.

Start, to Demarrer; mettre en marche.

Starting Mise en marche; demarrage.

Starting catch or bolt Verrou de mise en marche.

Starting handle Manivelle de mise en marche.

Starting handle axle Axe de manivelle de mise en marche.

Starting pin Goupille de mise en marche.

Starting pinion Pignon de mise en marche.

Starting pinion bush Douille de pignon de mise en marche.

Stay Tirant; entretoise.

Stay rod Tige entretoise.

Stay tube Tube tirant.

Steel Acier.

Steel, cold drawn Acier etire a froid.

Steel cord Corde en acier.

Steel rim Jante en acier.

Steel wire Fil d'acier.

Steep ascent Montee rapide.

Steep descent Descente rapide.

Steep gradient Forte rampe.

Steer, to Diriger.

Steering Direction.

Steering axle Essieu directeur.

Steering bar Barre de direction.

Steering collar Emplanture pour direction.

Steering column Tube de direction; barre verticale de direction.

Steering gear box Boite de direction.

Steering lever Levier de direction.

Steering lock Arret de direction.

Steering post Tube interieur de direction.

Steering quadrant Secteur de direction.

Steering rod Bielle de commande de direction;
tige de direction.

Steering rod bolt Axe de bielle de direction.

Steering sector Secteur pour direction.

Steering shaft Arbre de direction.

Steering wheel Roue directrice.

Steering wheel, hand Volant de direction.

Stem (boat) Etrave.

Stem, handle bar Tube plongeur de guidon.

Stem, valve Tige de soupape.

Step Marchepied.

Step bearing Crapaudine.

Step pulley Poulie etagee.

Step tread Palette de marchepied.

Stern frame Cadre d'helice.

Stern post Etambot.

Stern tube Tube d'arbre de l'helice.

Sticking plaster Taffetas.

Stirrup pump Pompe a etrier.

Stop Butoir.

Stop, to S'arreter.

Stop valve Soupape d'arret.

Stoppage Arret.

Stopping place Etape.

Straighten, to Redresser.

Strap Courroie.

Street Rue.

Stroke of piston Course du piston.

Stud Goujon.

Stud bolt Colonnnette.

Stud, security Boulon de securite.

Stud with projection Goujon ergot.

Studded tread band Protecteur antiderapant a rivets.

Stuffed Rembourse

Stuffing box Presse-etoupe; boite a garniture.

Subscription Abonnement; cotisation.

Suction Aspiration.

Suction stroke Temps d'aspiration.

Suction tubing Tuyauterie d'aspiration.

Suction valve cap Bouchon d'aspiration.

Suction valve flange Bride d'aspiration.

Sulphuric acid Acide sulfurique.

Superheater Surchauffeur.

Support Support.

Support for spring Main de support.

Surface carburetter Carburateur par surface.

Surface condenser Condenseur par surface.

Syringe Seringue.

Switch Interrupteur.

Switch block Sabot d'interrupteur.

Switch off, to Couper le circuit.

Switch on, to Fermer le circuit.

Swivel Emerillon.

Chapter 20

T

Tack Pointe.

Tail-board Tablier d'arriere.

Tail board fastening (wagon) Fermeture de hayon.

Tail board hook Crochet de tablier.

Tail end shaft Arbre porte-helice.

Tallow wood Arbre a suif.

Tandem Tandem.

Tandem safety Bicyclette-tandem.

Tandem tricycle Tricycle tandem.

Tangent spokes Rayons tangents.

Take to pieces, to Demonter.

Tank Reservoir.

Tap Robinet.

Tap, screwing Taraud.

Taper pin Goupille conique.

Tappet Toc; broche d'entrainement.

Tarpaulin Bache.

Tax plate Plaque de controle.

Teak Teck.

Tee Te.

Telescopic pump Pompe telescope.

Template Gabarit.

Tenon Tenon.

Terminal Borne.

Thimble Cosse.

Thong Laniere.

Thread, to Fileter.

Threaded pin Goupille filetee.

Three way tap Robinet a trois voies.

Three way water tap Robinet a trois debits pour
circulation d'eau.

Thread (screw) Filet.

Throttle valve Soupape a papillon; etrangleur.

Throw out of gear, to Debrayer.

Thrust Poussee; butee.

Thrust bearing Palier de butee.

Thrust block Butee.

Thrust collar Bague de butee.

Thrust rod Bielle de poussee.

Thrust screw Vis de poussee.

Ticket of membership Certificat de membre.

Ticking for covering cushions Toile treillis pour coussins.

Tighten, to Serrer; tendre.

Tightener, belt Tendeur pour courroie.

Tiller Barre.

Timekeeper Chronometreur.

Timing gear Appareil d'avance a l'allumage.

Timing sector or quadrant Secteur pour avance a l'allumage.

Toe clip Rattrape de pedale; calepieds.

Tool bag Sacoche.

Tool pouch Sacoche.

Tommy bar Broche.

Tonneau Tonneau.

Tongs Tenailles; pinces.

Top head cup Raccord superieur avant.

Top part of diaphragm Cuvette de piston a air.

Top shaft Arbre superieur.

Top tube Tube superieur;

tube horizontal.

Torque Torque.

Tour Voyage; tournee.

Touring Le tourisme.

Touring car Voiture de tourisme.

Tourist Touriste.

Tow, to Remorquer.

Track, racing Piste.

Tractive power Effort de traction.

Tractor Tracteur.

Trade, the Le commerce.

Trade mark Marque de fabrique.

Traffic, heavy Encombrement de voitures.

Trailer Voiturette remorque.

Tread Chape; bande de roulement;

croissant de protection.

Trembler Trembleur; rupteur.

Trembler coil Bobine a trembleur.

Tricycle Tricycle.

Trip Voyage de plaisir.

Trip rod Culbuteur.

Trip rod collar Bague de culbuteur.

Trip rod collar pin Goupille de bague de culbuteur.

Triple gear wheel Roue triple.

Triple inlet valve seat Siege triple de soupape
d'aspiration.

Trouser clip Pince-pantalon.

True, to Rectifier.

True a wheel, to Centrer une roue.

Tube Tube.

Tube expander Sertisseur.

Tubular box spanner Clef en tube concentrique.

Tubular steel shaft Arbre tube acier.

Turning handle Poignee tournante.

Turnpike road Route de grande communication.

Turpentine Terebenthine.

Tyre Caoutchouc; pneumatique; bandage.

Tyre cement Colle; mastic.

Tyre cover Enveloppe.

Tyre pump Pompe a pneumatique.

Tyre remover Demonte-pneu; demonte-bandage.

Tyre solution Dissolution.

Twin tap Robinet de melange.

Twist belt Courroie torse.

Two speed machine Machine a deux vitesses.

Two to one gear Mouvement de dedoublement.

Two to one shaft Arbre a cames.

Two way tap Robinet a deux voies.

Chapter 21

U

Unattached Independant.

Underframe Chassis inferieur.

Under stem of carburetter Dessous de carburateur.

Uniform, club Costume social.

Union Raccord.

Union, cycling Union velocipedique.

Universal joint Joint universel; joint a rotule.

Universal shackle Jumelle.

Unpuncturable Imperforable.

Unrideable Impraticable.

Unrivet, to Deriver.

Unscrew, to Devisser.

Up hill, to go Monter une cote.

Upholstered Garni; capitonne.

Upholstering Garniture.

Chapter 22

V

V belt Courroie trapezoidale; courroie en V.

V block on trembler Bloc en V du trembleur.

Valve, petrol inlet Clapet d'alimentation; pointeau d'arrivee d'essence.

Valve Valve; soupape; clapet.

Valve chain Chainette de valve.

Valve chamber Chambre de soupapes.

Valve chamber cap Bouchon de chambre des soupapes.

Valve cone Cone de soupape.

Valve dust cap Bouchon de soupape.

Valve lifter Leve-soupape.

Valve plug (tyre) Obus.

Valve seat Siege de soupape.

Valve spindle } Tige de soupape.

Valve stem }

Valve, to grind a Meuler une soupape.

Van Voiture de livraison.

Van, large Fourgon de livraison.

Vapourising carburetter Carburateur a evaporation.

Variable speed Vitesse variable.

Vehicle Vehicule.

Ventilator Ventilateur.

Vertical section Coupe verticale.

Vibration Trepidation.

Vice Etaui.

Victoria Victoria.

Voltage Voltage.

Voltmeter Voltmetre.

Vulcanised fibre Fibre vulcanisee.

Vulcanised rubber Caoutchouc vulcanise.

Chapter 23

W

Wagonette Wagonnette.

Wallet Sacoche.

Walnut Noyer.

Warmer Rechauffeur.

Warming pipe Tube-rechauffeur.

Wash-board Fargue.

Washer Rondelle.

Waste oil screw Vis de purge pour l'huile de
graissage.

Waste oil tap Robinet de purge pour l'huile de
graissage.

Waste petrol screw Vis de purge pour carburateur.

Waste petrol tap Robinet de purge pour carburateur.

Watch holder Porte-montre.

Water Eau.

Water cap Bouchon de reservoir.

Water circulation Circulation d'eau.

Water circulation connection Tubulure pour circulation d'eau.

Water cooling Refroidissement a l'eau.

Water gauge Niveau d'eau.

Water gauge glass Tube de niveau d'eau.

Water jacket Culasse a eau; enveloppe d'eau.

Water receiver round exhaust valve Poche d'eau autour de la soupape
d'échappement.

Waterproof Impermeable; etanche a l'eau.

Waterproof bag Sac en toile caoutchoutée.

Waterproof cape Pelerine.

Water tank Reservoir a eau; caisse a eau.

Water tube Bouilleur.

Watering cart Arrosoir; tonneau d'arrosage.

Wear and tear Usure.

Web (of a beam) Ame.

Wedge Coin; cale.

Weighing machine Bascule.

Weight Poids.

Weld, to Souder.

Weldless Sans soudure.

Well seat Siege profond.

Wheel Roue.

Wheel base Empattement.

Wheel cap Chapeau de roue.

Wheel cap spanner Clef pour essieux de voitures.

Wheel gauge Ecartement des roues.

Wheel guard Couvre-roues.

Wheel iron head Embrasure de ressort.

Wheel pulley Poulie jante.

Whip Cravache.

Whistle Sifflet.

White light Feu blanc.

Wick Meche.

Wind Vent.

Wind, head Vent contraire.

Wind shield Contrevent.

Winding road Route en lacets.

Window blind Store.

Wing Aile.

Winged nut Ecrou a oreilles.

Winning post Poteau d'arrivee.

Wipe contact Distributeur d'allumage.

Wire clamp Serre-fil.

Wire clamp for commutator Serre-fil pour distributeur
d'allumage.

Wire clamp for timing sector Serre-fil pour secteur d'avance a
l'allumage.

Wire drawing of steam Laminage de la vapeur.

Wire gauze Toile metallique.

Wire, iron Fil de fer.

Wire rope Cable metallique.

Wire seat Siege a tissu metallique.

Wired on cover Enveloppe a tringles.

Wooden rim Jante en bois.

Wooden seat Siege de bois.

Working drawing Dessin d'execution.

Working load Charge utile.

Working parts Pieces mecaniques.

Working pressure Pression effective.

Workmanship Main d'oeuvre.

Works Ateliers; fabrique; usine.

Worm Filet; vis sans fin.

Wrench, adjustable Clef anglaise.

Wrist pin Axe d'assemblage.

Wrought iron Fer forge.

Chapter 24

Y

Yew If.

Yoke Etrier.

Chapter 25

Z

Zinc Zinc.

Chapter 26

FRENCH-ENGLISH.

Abonnement Subscription.

Acajou Mahogany.

Acatene Chainless.

Accelérateur Accelerator.

Accessoires Accessories.

Accidente Hilly.

Accotement Cycle path.

Accotoir de strapontin Side rail for folding seat.

Accumulateur Accumulator; storage battery.

Acetylene Acetylene.

Acetylite Acetylite.

Acier embouti Pressed steel.

Acier trempé Hardened steel.

A-coup Knock.

Affaïsser, s' To collapse (of tyres).

Agencement Fitting.

Agrafe de courroie Belt fastener.

Aiguille Needle; pricker.

Aile Wing.

Aile d'arriere Back wing.

Aile d'avant Front wing.

Ailette Gill; flange; fin.

Ajoure With an opening.

Alcool denature Methylated spirits.

Alesage Bore.

Alesoir Rimer.

Allumage Ignition; sparking.

Allumage a incandescence Tube ignition.

Allumage electrique Electric ignition.

Allumage magneto-electrique Magneto-ignition.

Allumage par magneto Magneto-ignition.

Allumage premature Back fire.

Allumeur Contact breaker.

Allumoir Lighter; igniter.

Ame Web.

Amiante Asbestos.

Amperage Amperage.

Ampere Ampere.

Amperemetre Ammeter.

Ampoule verre Glass bulb.

Anche Reed.

Anti-derapant Non-skidding.

Arbre a cames Cam shaft.

Arbre a carre Squared shaft.

Arbre a plateaux Flanged shaft.

Arbre d'accélérateur Accelerator shaft.

Arbre de changement de vitesse Change speed shaft.

Arbre de différentiel Differential shaft.

Arbre de direction Steering shaft.

Arbre d'embrayage Clutch shaft.

Arbre de moteur Engine shaft; motor shaft.

Arbre de mouvement Gear shaft.

Arbre de pédale Pedal shaft.

Arbre de pignon de chaîne Sprocket shaft.

Arbre de ralentisseur Accelerator shaft.

Arbre de transmission Gear shaft; counter shaft.

Arbre en porte-a-faux Overhanging or projecting shaft.

Arbre inférieur Clutch shaft; bottom shaft.

Arbre intermédiaire Reverse shaft; counter shaft;
intermediate shaft.

Arbre porte-hélice Tail end shaft.

Arbre porte-marteau de régulateur Governor hammer shaft.
de moteur

Arbre primaire Primary shaft.

Arbre secondaire Secondary shaft.

Arbre supérieur Top shaft.

Arrache-clous Nail catcher.

Arrêt de direction Headlock; steering lock.

Arrière-train After carriage.

Arrivée d'essence Petrol inlet.

Aspiration Suction.

Astiquer To polish.

Atelier Workshop.

Attache Clamp.

Automobile Self-propelling; motorcar.

Autoreparateur, -rice Self-sealing.

Avance a l'allumage Sparking advance.

Avance a l'allumage, appareil d' Timing gear.

Avant-train Fore-carriage.

Axe Axle; bolt; pin; spindle.

Axe d'articulation de direction Steering rod bolt.

Axe d'assemblage Wrist pin.

Axe de bielle de direction Steering rod bolt.

Axe des abscisses Datum line.

Axe de flotteur de carburateur Carburetter float spindle.

Axe de fourchette porte-galet Exhaust fork roller bolt.

d'échappement

Axe de frein Brake pin.

Axe de galet du levier Exhaust fork roller bolt.

porte-galet de moteur.

Axe de levier de changement de Forward and reverse lever rod pin.

marche

Axe de manivelle de mise en marche Starting handle axle.

Axe des machoires du frein de Differential brake bolt.

différentiel.

Axe de pedale Pedal pin.

Axe de pignon Pinion spindle.

Axe de piston Piston pin; gudgeon pin.

Axe de volant Driving shaft.

Axe du pedalier Crank axle.

Axe en axe, d' Centre to centre.

Axe moteur Driving shaft.

Axe principal Main axle.

Axe supportant les distributeurs Commutator cam shaft.
d'allumage.

Chapter 27

B

Bac d'accumulateur Containing case.

Bache Tarpaulin.

Bague Collar; bush.

Bague a collerette Flanged collar.

Bague de biellette de rappel de Collar for digger.

tige

Bague de butee Thrust collar.

Bague de captation Thrust collar.

Bague de culbuteur Trip rod collar.

Bague de centrage Centering ring.

Bague de corps de distributeur Commutator bush.

d'allumage

Bague de réglage de direction Steering head lock nut.

Bain d'huile Oil bath.

Balai Brush.

Balai des distributeurs d'allumage Commutator brush.

Ballon Gas bag; canopy.

Ballon demontable Removable canopy.

Bandage Tyre.

Bandage plein Solid tyre.

Bande anti-derapante Non-skidding band.

Bande de roulement Tread.

Baquet Bucket seat.

Barbotage Smearing.

Barboter To smear or daub.

Barre d'accouplement de direction Front steering bar.

Barre franche Tiller.

Bascule Weighing machine.

Basse tension Low tension.

Bateau a moteur Motor boat.

Bati de moteur Crank case.

Batterie Battery.

Batterie de piles seches Dry battery.

Bec Nipple; burner.

Bec de selle Peak of saddle.

Becane Bike.

Bequille Sprag; devil.

Bicycle multiplie Ordinary geared bicycle.

Bicyclette Safety bicycle.

Bicyclette a moteur Motor bicycle.

Bicyclette de dame Lady's bicycle.

Bicyclette d'homme Man's bicycle.

Bicyclette pliante Folding bicycle.

Bicycliste Bicyclist.

Bidon Petrol can; oilcan.

Bielle Connecting rod; rod.

Bielle de changement de vitesse Change speed connecting rod.

Bielle de commande de debrayage Brake and clutch lever connecting

et de frein rod.

Bielle de commande de direction Steering rod.

Bielle de commande de frein Brake lever connecting rod.

Bielle de commande de piston de Carburettor connecting rod.
carbureteur

Bielle de moteur Piston connecting rod.

Bielle de poussee Thrust rod.

Bielle de rappel de tige Digger connecting rod.

Bielle de tension de chaine Chain adjusting rod.

Biellette Small connecting rod.

Bille Ball.

Bille de carbureteur Carburettor ball or valve.

Bille de graisseur Lubricator ball.

Biseaute Bevelled.

Blindage Casing.

Blinde Cased.

Bloc Block.

Bloc de chaine Chain block.

Bloc du trembleur Trembler block.

Bloc, gonfle a Hard pumped (tyre).

Bloc, serrer le frein a To put the brake full on.

Bobine a trembleur Trembler coil.

Bobine carree Square coil.

Bobine d'induction Induction coil.

Bobine quadruple 4-way coil.

Bobine sans trembleur Non-trembler coil.
Bois d'arbre a suif Tallow wood.
Boisseau de butoir Buffer guide.
Boite Box.
Boite a garniture Stuffing box.
Boite a graisse Axle box.
Boite a ressort Spring box.
Boite de differentiel Differential gear box.
Boite de direction Steering gear box.
Boite d'engrenages Gear box.
Boite de melange Mixing chamber.
Boite de mouvement Gear box.
Boite de vitesse Speed gear box.
Boite du flotteur Float chamber.
Boite necessaire Repair box.
Bombe Convex.
Borde Planking.
Borgne Blind.
Borne Terminal.
Bouche-trou Cap for oil hole.
Bouchon Cap; plug; nipple.
Bouchon a champignon Mushroom cap.
Bouchon d'accumulateur Accumulator cap.
Bouchon d'aspiration Suction valve cap.
Bouchon de dessus de carburateur Carburetter float cap.
Bouchon d'echappement Exhaust valve cap.
Bouchon d'emplissage de reservoir Cap for water pipe.
d'eau

Bouchon d'inflamateur Firing nipple.

Bouchon de reservoir Water cap.

Bouchon du regard d'échappement Exhaust valve inspection cap.

Bouchon de valve Valve cap.

Bouchon de vidange Blow off plug.

Bouchon registre de prise d'air Carburetter air cap.

pour carburateur

Bougie Sparking plug.

Bouilleur Water tube.

Bouillotte Footwarmer (water).

Boule de regulateur Governor ball.

Bouleau Birch-wood.

Boulon Bolt.

Boulon a mentonnet Hook bolt.

Boulon d'ancrage Holding down bolt.

Boulon de frein Brake screw.

Boulon de securite Safety bolt; security stud.

Boulon de securite a oreilles Security stud with wing nut.

Boulon de securite a ressort et a Security stud with spring and cap.

chapeau

Boulon du collier de direction Head and handle bar clip bolt.

Boulon, 6 pans Hexagon head bolt.

Boulon et ecrou Bolt and nut.

Boulon et ecrou de chaine Chain bolt and nut.

Boulon et ecrou de la tige de Seat pillar bolt and nut. _
selle_

Bourrelet Beaded edge of tyre cover.

Bouton Button.

Bouton d'arret Stop button.

Bouton de manivelle Crank pin.

Bouton de porte Door handle.

Braser To braze.

Brassiere Arm sling.

Brevet d'invention Patent.

Brevet principal Master patent.

Bride Clamp; flange.

Bride d'aspiration Inlet valve flange.

Bride d'echappement Exhaust valve flange.

Bride de ressort Clip for spring.

Briquet Clamp.

Broche Tommy bar; drift; gudgeon pin.

Broche d'entrainement Tappet.

Brosse a chaine Chain brush.

Bruleur Burner.

Buis Box-wood.

Burette Oil can.

Butee Thrust block.

Butee a billes Ball bearing thrust.

Butee de changement de marche Reversing thrust.

Butoir Stop.

Chapter 28

C

Cab Cab.

Cable Wire; rope.

Cable flexible Flexible wire.

Cache-poussiere Dust cap.

Cadre Frame.

Cadre a ressorts Spring frame.

Cadre antivibrateur Spring frame.

Cadre de selle Saddle frame.

Cadre en croix Cross frame.

Cadre d'helice Stern frame.

Caisse Body.

Caisse a eau Water tank.

Caisse pliante Folding crate.

Cale Block; wedge.

Calepieds Toe clip.

Caler To key.

Calfater To caulk.

Calotte de soupape d'aspiration Inlet valve cap.

Calotte de timbre Dome of bell.

Came Cam.

Came d'allumage Ignition cam.

Came d'échappement Exhaust lift cam.

Came de regulateur Governor cam.

Came fibre Fibre cam.

Camion Dray; lorry.

Caniveau Gutter.

Canot automobile Motor launch.

Caoutchouc India rubber; tyre.

Caoutchouc cannele pour pedales Fluted pedal rubber.

Caoutchouc creux Hollow tyre.

Caoutchouc plein Solid tyre.

Caoutchouc pneumatique Pneumatic tyre.

Caoutchouc pour pedales Pedal rubber.

Capitonne Upholstered.

Capot couvre-moteur Bonnet.

Capote Hood.

Capuchon Hood.

Capuchon de bruleur Burner guard.

Capuchon de lanterne Flame guard.

Carburateur Carburetter.

Carburateur a evaporation Vapourising carburetter.

Carburateur a niveau constant Constant level carburetter.

Carburateur a pulverisation Spray carburetter.

Carburateur par surface Surface carburetter.

Carbure de calcium Carbide.

Cardan Cardan; arbor shaft.
Carneau Fire-tube.
Carrefour Crossways.
Carrosserie Carriage work.
Carrossier Carriage builder.
Carter Crank case; gear case.
Carton d'amiante Asbestos millboard.
Catalytique Catalytic.
Catalyse Catalysis.
Cedre Cedar.
Celluloid Celluloid.
Cementer To case-harden.
Centrer une roue To true a wheel.
Chaine Chain.
Chaine a blocs Block chain.
Chaine a doubles rouleaux Double roller chain.
Chaine a rouleaux Roller chain.
Chaine a simples rouleaux Single roller chain.
Chainette de valve Valve chain.
Chainon Link of chain.
Chambre a air Air tube; inner tube.
Chambre de combustion Combustion chamber.
Chambre d'explosion Explosion chamber.
Chambre de diffusion Spray chamber.
Chambre de melange Mixing chamber.
Chambre de pulverisation Spray chamber.
Chambre de soupapes Valve chamber.
Champignon Inverted cone.

Champignon de pulverisation Sprayer.

Chanfreiner To chamfer.

Changement de marche Reversing gear.

Changement de vitesse Change speed gear.

Chape Tread of tyre; end; bracket; fork.

Chape de bequille Sprag bracket.

Chape de boule de regulateur Governor ball fork.

Chape du cliquet de levier de Change speed lever catch fork.

changement de vitesse

Chape de levier de frein Brake lever end.

Chape de piston du carburateur Carburetter piston rod end.

Chape de tige de frein Brake rod end.

Chape de tige entretoise de Cylinder head stay end.

culasse

Chapeau Cap; keep.

Chapeau de palier Bearing keep.

Chapeau de roue Wheel cap.

Chapeau de soupape Valve cap.

Chapeau de tension Cap of draw-link.

Charge de rupture Breaking strain.

Charge utile Working load.

Charger To charge.

Charniere Hinge.

Charniere avec cache-fente Concealed hinge.

Chasse-clous Nail-catcher.

Chasse-goupille Pin driver.

Chassis Chassis; frame.

Chassis cintre Curved frame.

Chassis court Short frame.

Chassis inferieur Under-frame.

Chataignier Chestnut.

Chaudiere Boiler.

Chaudiere a vaporisation Flash boiler.

instantanee

Chaufferette Footwarmer.

Chaussee Roadway.

Chaussee en empierrement Macadamised road.

Chemin Road.

Chemin forain Wide thoroughfare.

Cheminee d'aspiration Air chimney.

Chene Oak.

Chene blanc White oak.

Chene vert Live oak.

Chevaux effectifs, force en Brake horse-power.

Cheville de l'interrupteur Connecting plug.

Chicanes, en Arranged as baffles.

Choc en arriere Back fire; back kick.

Circulation d'eau Water circulation.

Cisaillement, travail de Shearing strain.

Clapet Flap valve; valve.

Clapet d'alimentation Feed valve.

Claquer To rattle.

Clavette Key; cotter; linch-pin.

Clavette de pedaller Bottom bracket cotter pin.

Clavette de soupape d'admission Inlet valve cotter.

Clef Spanner.

Clef americaine a molette Billing spanner.

“Billing.”

Clef anglaise Screw wrench.

Clef a deux branches Double branch spanner.

Clef a douille Box spanner.

Clef de serrage Spanner.

Clef double Double ended spanner.

Clef en tube concentrique Tubular box spanner.

Clef pour essieux de voitures Wheel cap spanner.

Clef pour rotules de direction Spanner for steering gear.

Clef simple Single ended spanner.

Clin, a Clincher built.

Clinquant Foil.

Cliquet Catch; ratchet.

Cliquet de levier de changement Change speed lever catch.

de vitesse

Cliquet de levier de frein Brake lever catch.

Clochette Bell.

Cloison Partition.

Clou a parquet Brad.

Coefficient de friction Coefficient of friction.

Coin Wedge.

Colle Cement (for tyres).

Collecteur Commutator; header (of boiler).

Collet Collar.

Collier Band; strap.

Collier d'excentrique Eccentric strap.

Collier de frein Brake band; brake clip.

Collier de levier de frein Brake detachable clip.

*Collier de réglage des cuvettes Bottom, bracket adjusting
de pedalier_ collar._*

Collier de serrage Clip.

Collier de serrage de direction Head and handle bar clip.

Collier de trompette Horn bracket.

Collier de tube de frein Brake adjusting clip.

Colonnnette Sprocket bolt; stud bolt.

Commande Operated; governed.

Compas Hinge.

Compte-gouttes Drip feed lubricator.

Compte-tours Revolution counter.

Condenseur a jet Jet condenser.

Condenseur a surface Surface condenser.

Cone Cone.

Cone d'embrayage Clutch cone.

Cone de moyeu arriere Back hub cone.

Cone de moyeu avant Front hub cone.

Cone de pedale Pedal cone.

Cone de réglage Adjusting cone.

Cone du raccord inferieur avant Bottom head cone.

Cone femelle Female cone.

Cone fixe du moyeu arriere Rear hub fixed cone.

Cone fixe du moyeu avant Front hub fixed cone.

Cone male Male cone.

Cone renverse Inverted or spray cone.

Conge Fillet.

Contact platine Platinum contact.

Contour Outline.

Contre-clavette Gib.

Contre-ecrou Lock-nut.

Contre-ecrou de direction Head locking nut.

Contre-ecrou du pignon arriere Chain ring lock nut.

Contre-enveloppe Protecting cover.

Contrefourche Fork prop.

Contrepedaler To back-pedal.

Contre-plaque Baffle plate.

Contrepoids Balance weight.

Contrepoids de vilebrequin Crank back-balance.

Contre-pression Back pressure.

Contrevent Wind shield.

Corde Cord.

Corde d'amiante Asbestos cord.

Corde de chanvre Hemp cord.

Corde en acier Steel cord.

Cornet d'alarme Horn; hooter.

Corniere Angle bar.

Cosse Thimble.

Costume social Club costume.

Cote praticable Navigable hill.

Coude Elbow.

Coulisse Slide.

Coulisseau Block; guide.

Coulisseau de tige de distribution Slide rod guide.

Coup, a- Knock.

Coup de collier Spurt.

Coup de poing Hand pump.

Coupe Section.

Coupe Brougham.

Coupe-circuit Cut-out.

Coupe longitudinale Longitudinal section.

Coupe transversale Cross section.

Coupe verticale Vertical section.

Couper le circuit To switch off.

Courant Current.

Couronne Ring; crown; rim.

Couronne de billes Ball race.

Couronne de fourche avant Front fork crown.

Courroie Belt; strap.

Courroie a talon Edged belt.

Courroie collee Cemented belt.

Courroie cousue Sewn belt.

Courroie en ∇ ∇ belt.

Courroie inextensible Non-stretching belt.

Courroie poil de chameau Camel hair belt.

Courroie sans fin Endless belt.

Courroie torse Twist belt.

Courroie trapezoidale ∇ -belt.

Course du piston Stroke of piston.

Course de cote Hill climbing trial.

Course de fond Long distance race.

Coussin Cushion.

Coussinet Bearing.

Coussinets a billes Ball bearings.

Coussinets a cones réglables Adjustable cone bearings.
Coussinets a cuvettes réglables Adjustable cup bearings.
Coussinets a double filet Double ball bearings.
Coussinets ajustables Adjustable bearings.
Coussinets a rouleaux Roller bearings.
Coussinets de boite de mouvement Gear box bearings.
Coussinets de moteur Motor bearings.
Couvercle Cover; canopy; top.
Couvercle antipoussiereux Dust cap.
Couvercle d'allumage Cover of contact breaker.
Couvercle d'arbre a cames Cam shaft cover.
Couvercle de culasse Cylinder head cover.
Couvercle demontable Removable canopy.
Couvercle et galerie Luggage top.
Couvre-chaine Chain guard.
Couvre-engrenages Gear case.
Couvre-roues Wheel guard.
Couvre-selle Saddle cover.
Crampon Staple.
Crapaudine Step bearing.
Cremaillere Rack.
Crevaision Burst (tyre).
Crever To burst; to collapse.
Cran Notch.
Cric Lifting jack.
Cristal Glass.
Crochet Bell fastener; hook.
Crochet de tablier Tailboard hook.

Crochets de la jante Clinch of the rim.

Croisillon Cross shaft.

Croissant de protection Protecting band; tread.

Crosse Cross head.

Crupon pour courroie Belt-butt.

Cuir Leather.

Cuir chrome Chrome leather.

Cuir de selle Leather top of saddle.

Cuir vert Raw hide.

Cuivre Copper plated.

Cuivre jaune Brass.

Cuivre rouge Copper.

Culasse Cylinder head.

Culasse a eau Water jacket.

Culbuteur Trip rod; digger.

Culotte Bridge piece.

Culotte d'aspiration Bridge piece for inlet valve.

Culotte d'échappement Bridge piece for exhaust.

Curseur Index; cursor.

Cuvette Ball race; cup (of bearings).

Cuvette arriere d'essieu a billes Ball race for back axle.

Cuvette avant d'essieu a billes Ball race for front axle.

Cuvette de bruleur Burner cup or pan.

Cuvette de pedelier Bottom bracket barrel.

Cuvette de piston a air Top part of diaphragm.

Cylindre Cylinder.

Cylindre-culasse Centaur cylinder.

Chapter 29

D

Dard Dragon tongue.

Debit Feed.

Debrayer To disengage; to de-clutch.

Debrayer la courroie To throw off the belt.

Dechets de coton Cotton waste.

Decompression Compression relief.

Deformations de la route Irregularities of the road.

Degonfler To deflate.

Demarrage Starting.

Demarrer To start.

Demi-coupe Half section.

Demontable Detachable.

Demonte-bandage } Tyre remover.

Demonte-pneu }

Demonter To take to pieces.

Demonteur de bandage Tyre remover.

Densimetre Densimeter.

Dent de roue Cog.
Denture Tooth; cog.
Depart Outlet.
Derapage Side slip.
Deraper To side slip; to skid.
Descente dangereuse Dangerous hill.
Desengrener To throw out of gear.
Dessin d'exécution Working drawing.
Dessous de carburateur Under stem of carburetter.
Detente de vapeur Expansion of steam.
Detraquer To get out of order.
Developpement Gear.
Deversoir Flooder.
Diaphragme Diaphragm.
Diffuseur Sprayer.
Dimensions de la caisse Measurement over body.
Direction Steering; *head of a bicycle*.
Disposition schematique Diagrammatic arrangement.
Disque Disc.
Disque d'excentrique Eccentric sheave.
Dissolution Tyre solution.
Distance Distance.
Distance parcourue Distance run.
Distributeur d'allumage }
Distributeur de courant pour } Commutator; wipe contact.
allumage }
Domaine public, le brevet est The patent has expired.
dans le

Douille Bush; sleeve.

Douille de direction Head socket.

Douille de lanterne Lamp stump.

Douille de mise en marche Starting pinion bush.

Douille de regulateur Governor sleeve.

Dresse au tour Faced in the lathe.

Dynamo Dynamo.

Chapter 30

E

Ebauche Rough; forging.

Ebene Ebony.

Ecartement des essieux Distance between axles.

Ecartement des roues Wheel gauge.

Echappement Exhaust.

Echauffement Overheating.

Echelle de reduction Plotting scale.

Eclater To burst (tyre).

Ecrou Nut.

Ecrou a encoches } Castle nut.

Ecrou a entailles }

Ecrou a oreilles Butterfly nut.

Ecrou borgne Cap nut.

Ecrou d'axe de pedale Pedal fastening nut.

Ecrou d'essieu a billes Ball bearing axle arm nut.

Ecrou de rayon Spoke nipple.

Ecrou de reglage de pedale Pedal adjusting nut.

Ecrou du collier de direction Head and handle bar clip nut.

Ecrou du moyeu arriere Back hub spindle nut.

Ecrou du moyeu avant Front hub spindle nut.

Ecrou mollete Milled edge nut.

Effort de flexion Bending strain.

Effort de traction Tractive power.

Element Cell.

Elevation de bout End elevation.

Elevation de cote Side elevation.

Elevation de face Front elevation.

Email Enamel.

Emailler To enamel.

Embase Shoulder.

Embouti Dished; pressed.

Embrasure de ressort Wheel iron head.

Embrayage Clutch.

Embrayage a cones Cone clutch.

Embrayage a friction Friction clutch.

Embrayage a griffes Dog clutch.

Embrayage a plateaux Plate clutch.

Embrayage a ressort Spring clutch.

Embrayer To throw into gear; to clutch.

Emerillon Swivel.

Empattement Wheel base.

Emplanture pour direction Steering collar.

Encliquetage Ratchet.

Enduire To smear.

Enduit pour courroies Belt grease; belt dressing.

Engrenage Gear.

Engrenage a chevrons Double helical gear.

Engrenage conique Bevel gear.

Engrenage de dedoublement Two to one gear.

Engrenage droit Spur gear.

Engrene In gear.

Engrener To mesh (of cog wheels).

Ensemble General view.

Entonnoir Funnel.

Entonnoir avec grille Funnel with strainer.

Entonnoir avec toile metallique Funnel with fine strainer.

fine

Entourage Bonnet.

Entree sur le cote Side entrance.

Entretoise Stay.

Entretoise des tubes montants Mudguard bridge. _

arriere _

Entretoise fourche arriere Back fork bridge.

Enveloppe Cover; outer cover of tyre.

Enveloppe d'eau Water jacket.

Enveloppe du vilebrequin Crank case.

Enveloppe protectrice Protecting cover.

Epaulement Shoulder.

Equerre Angle plate.

Erbale Maple.

Erbale dur Rock maple.

Ergote With snug.

Esse Linch-pin; shackle.

Essence Petrol; spirit.

Essieu Axle.

Essieu a billes Ball bearing axle.

Essieu brise Divided axle.

Essieu directeur Steering axle.

Essieu droit Straight axle.

Essieu coude Crank axle.

Essieu moteur Driving axle; live axle.

Essieu porteur Carrying axle.

Essieu tournant Live axle.

Etage (radiateur) Row.

Etambot Stern post.

Etanche a la poussiere Dust proof.

Etape Stopping place.

Etape journaliere Day's stage.

Etincelle Spark.

Etincelle chaude Fat spark.

Etiquette Label.

Etire a froid Cold drawn.

Etoquiau Detent pin.

Etrangler To throttle.

Etranglement Throttling.

Etrave Stem.

Etrier Yoke.

Etudier To design.

Eventail a 4 branches 4 slat neck plate.

Explosion prematuree Back fire.

Exposant Exhibitor.

Exposition Exhibition; show.

Extincteur Extinguisher.

Chapter 31

F

Fabrique Factory.

Faisceau tubulaire Stack of tubes.

Fargue Wash-board.

Fendu Split.

Fer en U Channel iron.

Fer forge Wrought iron.

Fer profile Section iron.

Fermer le circuit To close the circuit.

Fermeture Closing; fastening.

Fermeture de hayon Tailboard fastening.

Feu blanc White light.

Feu rouge Red light.

Feu vert Green light.

Fibre Fibre.

Fibre isolante Insulation fibre.

Fil d'acier Steel wire.

Fil de fer Iron wire.

Fil électrique Electric wire.

Filet Thread of a screw.

Filetage double mâle Double male screwed.

Filtre Filter.

Flasque Cheek.

Flotteur Float.

Flotteur de carburateur Carburettor float.

Fonte Cast iron.

Forte rampe Steep gradient.

Fou, folle Loose.

Fourche arrière Back fork.

Fourche avant Front fork.

Fourchette Fork.

Fourchette d'échappement Exhaust valve fork.

Fourchette de rappel de tige Digger fork.

Fourchette de tirage de levier de Brake rod fork.

frein

Fourchette porte-galet Exhaust roller fork.

d'échappement

Fourgon de livraison Large van.

Fourre Bushed.

Fourreau de fourche Fork blade.

Franc-bord, à Carvel built.

Frein Brake.

Frein à bande Band brake.

Frein à collier Band brake.

Frein à contre-pédalage Back-peddalling brake.

Frein à enroulement Band brake.

Frein a expansion Expansion brake.

Frein a levier Lever brake.

Frein a machoires Clasp brake; clip brake.

Frein a patin Spoon brake.

Frein a sabot Spoon brake.

Frein a tambour Drum brake.

Frein a vis Screw brake.

Frein du moyeu Hub brake.

Frein sur jante Rim brake.

Frein du differentiel Differential brake.

Freiner To apply the brake.

Frene Ash.

Frette Ferrule; nave hoop.

Frottement Friction.

Frottements a cones Cone bearings.

Fuite d'air Leakage of air.

Fusee d'essieu Axle arm.

Chapter 32

G

Gabarit Template.

Gache Staple.

Gaiac Lignum vitae.

Gaine Case; sheath.

Galerie Luggage guard.

Galet Roller.

Galet d'arbre a cames Cam shaft roller.

Galet de chaine Chain roller.

Galet de debayage Clutch lever roller.

Galet de fourchette d'echappement Exhaust fork roller.

Galet de friction Friction roller.

Garage Garage; motor house.

Garcette Gasket.

Garde-boue Mudguard.

Garde-boue arriere Back mudguard.

Garde-boue avant Front mudguard.

Garde-chaine Chain guard; gear case.

Garde-crotte Mudguard.

Garde-jupe Dress guard.

Garni Upholstered; bushed.

Garniture Lining; upholstering; packing.

Gaz acetylene Acetylene gas.

Gaz brule Burnt gas.

Gaz de decharge } Exhaust gas.

Gaz d'échappement }

Generateur a vaporisation Flash boiler.

instantanee

Gercure Boil; bulge on cover.

Gicleur; gigleur Petrol jet.

Glace Glass; window.

Glace de couvercle de Commutator glass.

distributeur d'allumage

Glace de graisseur Lubricator glass.

Glace du tiroir Face of slide valve.

Glissement Slipping.

Glissiere Slide.

Godet a huile Oil cup.

Godet a petrole Petrol cup.

Gomme de Para Para rubber.

Gonfler To inflate; to pump (tyres).

Goujon Stud.

Goujon de capote Head prop.

Goujon d'inflamateur Sparking plug stud.

Goujon de support de pompe Pump bracket stud.

Goujon ergot Stud with projection.

Goupille Pin.

Goupille conique Taper pin.

Goupille de bague de culbuteur Trip rod collar pin.

Goupille de mise en marche Starting gear pin.

Goupille fendue Split pin.

Goupille filetee Threaded pin.

Gousset Corner plate; gusset.

Gouttieres de graissage Oil ways.

Grain Thrust block.

Graissage Lubricator.

Graisse Grease.

Graisse consistante Stauffer grease; thick grease.

Graisser To lubricate.

Graisreur Lubricator.

Graisreur a debit visible Sight feed lubricator.

Graisreur a departs multiples Multiple lubricator.

Graisreur compte-gouttes Drip feed lubricator.

Graisreur coup de poing Hand pump lubricator.

Graisreur de bati Crank case lubricator.

Grand pignon Chain wheel.

Grande route Public carriage road.

Gravier Gravel.

Grelot Bell.

Griffe Dog.

Grillage Grid.

Grille anti-poussiere } Gauze dust shield.

Grille metallique }

Grippement Friction; seizing.

Gripper To seize.

Groupe moteur Motor and gear.

Guichet de prise d'air Air inlet flap or valve.

Guide Guide.

Guide de fourchette d'échappement Exhaust fork guide.

Guide de frein Brake guide.

Guide de soupape d'échappement Exhaust valve guide.

Guidon Handle bar.

Guidon cintre Bent handle bar.

Guidon reversible Reversible handle bar.

Chapter 33

H

Haute tension High tension.

Hayon Front or tail board of a wagon.

Helice Propeller.

Hemlock Hemlock.

Hernie Boil; bulge on cover.

Hetre Beech.

Hickory Hickory.

Horloge de voiture Carriage clock.

Huilage Oiling.

Huile Oil.

Huile a graisser Lubricating oil.

Huile de lin cuite Boiled linseed oil.

Huile de pieds de boeuf Neat's foot oil.

Huileur Oil hole.

Huit Drop shackle.

Chapter 34

I

If Yew.

Imperforable Puncture proof.

Impermeable a l'air Air tight.

Indegonflable Non-deflatable.

Indicateur de pentes Gradometer.

Indicateur de poles Pole finder.

Indicateur de vitesse Speed indicator.

Induit Armature.

Inflamateur Sparking plug.

Injecteur Injector.

Insigne Badge.

Interrupteur Switch.

Interrupteur a cheville Connecting plug.

Interrupteur de cadre Frame switch.

Isolateur Insulator.

Chapter 35

J

Jante Rim.

Jante creuse Hollow rim.

Jante de la roue arriere Back rim.

Jante de la roue avant Front rim.

Jante en acier Steel rim.

Jante en bois Wooden rim.

Jauge Gauge.

Jeu Play; clearance.

Joint Joint.

Joint a rotule Ball joint.

Joint de Cardan Cardan joint.

Jumelle Universal shackle.

Chapter 36

L

Lacet Belt lace.

Lache Slack.

Laiton Brass.

Lame Small plate; blade.

Lame a talon du rupteur Carpentier High speed trembler top plate.

Lame de collier de frein ordinaire Segment of ordinary brake.

Lame de maillon Side plate of link.

Lame verte Green sheet.

Laminage de la vapeur Wire drawing of steam.

Lampe de bruleur Burner tank.

Lampion Chinese lantern.

Landau Landau.

Landaulet Landaulet.

Laniere Belt lace.

Lanterne Lamp; burner cage; diaphragm.

Lanterne a acetylene Acetylene lamp.

Lanterne a bougie Candle lamp.

Lanterne a huile Oil lamp.

Lanterne a petrole Petroleum lamp.

Lanterne de queue Tail light.

Largeur au maitre-bau Beam.

Lentille Lens (of lamp).

Levier Lever.

Levier a boule Ball lever.

Levier a main Hand lever.

Levier coude Crank lever.

Levier de changement de marche. Reversing lever.

Levier de changement de vitesse. Change speed lever.

Levier de debrayage Disengaging lever; clutch lever.

Levier de direction Steering lever.

Levier de frein Brake lever.

Levier de ralentisseur Accelerator lever.

Levier de regulateur Governor lever.

Levier de tirage de frein Brake lever.

Limande de garniture Gasket.

Lime File.

Limousine Limousine.

Linguet Pawl.

Linoleum Linoleum.

Longeron Sole bar.

Longueur de tete en tete Length between perpendiculars.

Loquet Catch; latch.

Loqueteau de portiere Door lock.

Lubrifiant Lubricant.

Lubrifier To lubricate.

Lumiere d'échappement Exhaust port.

Lunettes de route Goggles.

Chapter 37

M

Macadam Macadam.

Macaron Cork float.

Machine de route Roadster.

Maillechort German silver.

Maillon Link.

Main de ressort Scroll iron.

Main de support Support for spring.

Manche Handle.

Manchon Sleeve; socket.

Manchon a griffes Dog clutch.

Manchon excentrique de reduction. Offset reducing coupling.

Manchon guetre pour pneu Tyre gaiter.

Manette Handle; hand lever.

Manette a ressort Spring handle.

Manette d'admission d'air Air lever.

Manette d'admission de gaz Gas lever.

Manette d'allumage Ignition lever.

Manette d'avance a l'allumage Sparking advance lever.

Manette de commande Controlling lever.

Manette de compression Compression lever.

Manivelle Crank; starting handle.

Manivelle a cloche Bell crank.

Manivelle de mise en marche Starting handle.

Manivelle detachable Detachable crank.

Manivelle droite Right crank.

Manivelle gauche Left crank.

Manneton Crank.

Manometre Pressure gauge.

Marche Movement; motion.

Marche arriere Reverse movement.

Marche en avant Forward movement.

Marchepied Step.

Marchepied d'arriere Back step.

Marchepied de cote Side step.

Maroquin Morocco.

Marteau Hammer.

Masque Mask.

Matiere active Active material.

Meche Wick.

Melange Mixture; mixing.

Melange tonnant Explosive mixture.

Meleze Larch.

Membrane Membrane.

Membrures Boat frames.

Menotte Shackle; dee shackle.

Mentonnet Flange.

Meuler To grind.

Mine de plomb Blacklead.

Mise en marche Starting.

Moderateur Governor; regulator.

Mollete Milled.

Montant de porte Door pillar.

Montee rapide Steep ascent.

Montueux Hilly.

Monture de bruleur Burner mount.

Moteur Motor.

Moteur a l'avant Motor in front.

Moteur a quatre temps Four cycle gas motor.

Moteur sous le siege Motor under the seat.

Motocycle Motor cycle.

Motocyclette Motor bicycle.

Motocycliste Motor cyclist.

Mouvement de commande de Accelerator control gear.

ralentisseur

Mouvement de differentiel Differential gear; balance gear.

Mouvement de reduction a 1/2 Two to one gear; half time gear.

Moyeu Hub; boss.

Moyeu de la roue arriere Rear hub.

Moyeu de la roue avant Front hub.

Multiplication Gear.

Multiplication forte High gearing.

Multiplier To gear up.

Chapter 38

N

Necessaire de reparations Repair outfit.

Nickeler To plate.

Noyau de fer Iron core.

Noyer Walnut.

Chapter 39

O

Obturateur Cap for oil hole.

Obus Valve plug (tyre).

Odometre Odometer.

OEuvre, dans l' In the clear.

OEuvre, hors Over all.

Omnibus Omnibus.

Oreille Lug.

Orifice d'échappement Exhaust opening.

Orifice de remplissage Petrol inlet.

Orme Elm.

Orme blanc Grey elm.

Orme noir Rock elm.

Orniere Rut.

Chapter 40

P

Palette de marchepied Step tread.

Palier Bearing block.

Palier central Centre bearing.

Palier de butee Thrust bearing.

Palier, en On the flat.

Palissandre Rosewood.

Panne Purlin; break-down.

Panne, rester en To break down.

Panneau Panel.

Papier d'amiant Asbestos paper.

Papier d'emer Emery paper.

Papier de verre Sand paper.

Papillon Throttle valve; butterfly nut.

Paraffine Paraffin.

Pare-crotte Dash-board.

Pare-flamme Flame guard.

Pare-poussiere Dust-guard.

Pas de vis Pitch; thread of screw.

Pastille pour reparation de pneu. Patch for repairing tyre.

Pate a polir Metal polish.

Patin de frein Brake spoon or shoe.

Patiner To skid.

Patte d'attache Clamp.

Pattes arriere End of back forks.

Pave Cobble stones.

Peau de vache Cowhide.

Pedale Pedal.

Pedale a caoutchouc Rubber pedal.

Pedale a dents de scie Rat-trap pedal.

Pedale a levier de debrayage Clutch pedal.

Pedale a scie Rat-trap pedal.

Pedale au yatagan Clutch pedal.

Pedale d'accelerateur Accelerator pedal.

Pedale de debrayage Clutch pedal.

Pedale de debrayage et frein Disengaging and brake pedal.

Pedale de frein Brake pedal.

Pedale de secteur d'accelerateur. Accelerator sector pedal.

Pedalier Crank bracket; bottom bracket.

Pedalier Pedal gear.

Pedalier etroit Narrow tread bracket.

Peinture aluminium Aluminium paint.

Pente dure }

Pente forte } Steep gradient.

Pente raide }

Pente douce } Easy gradient.

Pente faible }

Perforation Puncture.

Perforer, se To puncture.

Persienne Shutter.

Petrole lampant Paraffin; heavy oil.

Petrole lourd Heavy oil.

Phaeton Phaeton.

Phare Headlight.

Piece d'attache Clamp.

Pieces de rechange Spare parts.

Pieces interchangeables Interchangeable parts.

Pieces mecaniques Working parts.

Piece polaire Pole piece.

Pierre de rebord Kerbstone.

Pignon Pinion.

Pignon conique } Bevel wheel.

Pignon d'angle }

Pignon de chaine Sprocket wheel.

Pignon de dedoublement Gear wheel.

Pignon de la roue motrice Rear hub chain ring.

Pignon de mise en marche } Starting pinion.

Pignon de mise en train }

Pignon droit Spur pinion.

Pignon, grand Chain wheel.

Pile seche Dry battery.

Pilier de selle Saddle pillar.

Pin Pine.

Pince Pliers.

Pincage Pinching (of tyre).

Pincer To pinch.

Piston Piston.

Piston a air Air piston.

Piston de carburateur Carburetter piston.

Piston de moteur Motor piston.

Pitch-pin Pitch pine.

Piton Eye bolt.

Pivot Pivot.

Place Seat.

Plan de detail Detailed plan.

Plan de l'ensemble General plan.

Plan de niveau Datum line.

Plan vu de dessous Plan looking upwards.

Planche de toiture Roof board.

Planche du bout End board.

Planche du siege Seat board.

Planche laterale Side board.

Planche pare-crotte Dash board; splash board.

Planetaire Planetary.

Plaque Plate.

Plaque argent Silver plated.

Plaque de controle Tax plate.

Plaque d'identite Identification plate.

Plaque emaillee Enamelled plate.

Plaque numerotee Number plate.

Plat bord Gunwale.

Plateau de friction Friction plate.

Plateau de manivelle Crank disc.

Plus-value Extra price.

Pneu-cuir Tread.

Pneumatique Tyre; cover.

Pneumatique a talons Cover with beaded edges.

Pneumatique a tringles Cover wired on.

Pneumatique a tube simple Single tube tyre.

Pneumatique auto-reparable Self sealing tyre.

Pneumatique colle Single tube tyre.

Pneumatique degonfle Slack tyre.

Pneumatique de la roue arriere. Back tyre.

Pneumatique de la roue avant Front tyre.

Poche a gaz Gas bag.

Poche d'eau autour de la soupape Water receiver round exhaust
d'echappement valve.

Poignee Handle.

Poignee d'allumage du guidon Handle bar switch.

Poignee de la pompe a huile Handle of oil pump.

Poignee en corne Horn handle.

Poignee en liege Cork handle.

Poignee tournante Turning handle.

Point de repere Reference mark.

Point mort Dead centre.

Pointeau Needle valve.

Pointeau d'arrivee d'essence Petrol inlet valve.

Pointes de la bougie Points of sparking plug.

Poire de cornette Bulb of horn.

Pompe Pump.

Pompe a air Air pump.

Pompe a battant Pump with clapper valve.

Pompe a etrier Stirrup pump.

Pompe a huile Oil pump.

Pompe a pied Foot pump.

Pompe centrifuge Centrifugal pump.

Pompe de circulation Circulation pump.

Pompe pneumatique Tyre pump.

Pompe rotative Rotary pump.

Pompe telescope Telescopic pump.

Pompe turbine Centrifugal pump; turbine pump.

Poncelet 1 H.P. = $\frac{3}{4}$ Poncelet.

Porte Door.

Porte a coulisse Sliding door.

Porte-a-faux, arbre en Overhanging or projecting shaft.

Porte-bagage Luggage carrier.

Porte d'entourage Bonnet door.

Porte-fusil Gun clip.

Porte-lanterne Lamp bracket.

Porte-montre Watch holder.

Porte-phare Lamp bracket.

Porte-pompe Pump clip.

Portee de calage Axle seat.

Portiere Door.

Portiere laterale Side door.

Pot d'echappement Exhaust box; exhaust pot;
silencer.

Poteau avertisseur Caution board.

Poteau d'arrivee Winning post.

Poteau indicateur Finger post.

Poulie Pulley.

Poulie de bequille Sprag pulley.

Poulie de commande Driving pulley.

Poulie de frein Brake pulley.

Poulie de graisseur Lubricator pulley.

Poulie de tension Jockey pulley.

Poulie de transmission Driving pulley.

Poulie etagee Step pulley.

Poulie extensible Expanding pulley.

Poulie jante Wheel pulley.

Poulie motrice Driving pulley.

Poussee Thrust.

Poussee oblique Side thrust.

Poussiere Dust.

Poussoir de soupape d'echappement. Exhaust valve lift.

Poutre a treillis Lattice girder.

Presse Clamp.

Presse-etoupe Gland; stuffing box.

Pression effective Working pressure.

Prise d'air Air port; air inlet.

Prise directe Direct drive.

Propulseur Propeller.

Protecteur Protector.

Protecteur antiderapant a rivets. Studded tread band.

Protecteur de bandage Protecting band for tyre.

Puissance au frein Brake horse power.

Purge Blow off.

Purgeur continu Drip tap.

Chapter 41

Q

Quadricycle a moteur Motor quadricycle.

Quadruplette Quadruplet.

Quille Keel.

Quinconces, en Staggered.

Chapter 42

R

Raccord Union; pipe connection.

Raccord d'aspiration Inlet valve union.

Raccord de pompe Pump union.

Raccord du pilier de selle Saddle lug; seat lug.

Raccord inferieur avant Bottom head cup.

Radiateur Radiator.

Radiateur a alveoles Honeycomb radiator.

Radiateur cloisonne Sectional radiator.

Radiateur multitubulaire Multitubular radiator.

Radiateur nid d'abeilles Honeycomb radiator.

Rafrachir To cool.

Rai Spoke.

Rainure Groove.

Ralentisseur; accelerateur Accelerator.

Rallonge Extension piece.

Rampe Guard.

Rampe d'huile Oil-way.

Rampe de sortie d'eau Inclined water outlet.

Rampe, en On a gradient.

Rangée de billes Ball race.

Rappel, tige de Digger rod.

Rate d'allumage Misfire.

Rattrape de pedale Toe clip.

Rayon Spoke.

Rayons directs Direct spokes.

Rayons renforcés Butt ended spokes.

Rayons renforcés aux deux bouts Double butted spokes.

Rayons tangents Tangent spokes.

Rebord de la fusée Collar.

Recaoutchouture Re-tyring; re-rubbering.

Recharge Refill.

Rechauffeur Petrol warmer; warming pipe; feed heater.

Rectifier To true.

Recuire To anneal.

Recuit Annealed.

Reflecteur parabolique Parabolic reflector.

Refoulement, tuyau de Delivery pipe.

Refroidir To cool.

Refroidissement à l'eau Water cooling.

Refroidisseur Cooler.

Refroidisseur nid d'abeilles Beehive cooler.

Regard Inspection plate or cover.

Reglage Adjustment.

Règlement de circulation Regulations.

Regulateur Governor; regulator.

Regulateur a main fixe sur le Carburettor hand regulator.

carburateur

Rembourre Stuffed.

Remiser une voiture To house a car.

Remorquer To tow; to haul.

Rendement du moteur Efficiency of motor.

Renfort de fourche Prop for fork.

Repose-pied Foot rest.

Reservoir Tank.

Reservoir a eau Water tank.

Reservoir a essence Petrol tank.

Reservoir a flotteur Float chamber.

Reservoir a huile Oil reservoir.

Reservoir d'échappement Exhaust box.

Reservoir de petrole Petrol tank.

Ressort Spring.

Ressort a boudin Spiral spring.

Ressort a pincette Elliptic spring.

Ressort compensateur Compensating spring.

Ressort d'appareil de commande Hand control spring.

d'allumage

Ressort de choc Buffer spring.

Ressort d'embrayage Clutch spring.

Ressort d'essieu Body spring.

Ressort demi-pincette Grasshopper spring.

Ressort de piston a air Diaphragm spring.

Ressort de rappel Reaction spring.

Ressort de rappel de distributeur Long commutator spring.

Ressort de rappel de frein Brake spring.

Ressort de rappel de levier de Carburateur lever spring.
carburateur

Ressort de rappel de tige Digger spring.

Ressort de regulateur Governor spring.

Ressort de soupape de robinet Petrol tap spring.

Ressort de suspension Bearing spring.

Ressort de tige de ralentisseur Accelerator rod spring.

Ressort de trembleur Contact breaker spring.

Ressort de vis pointeau des Burner valve spring.
bruleurs

Ressort elliptique Elliptic spring.

Retard a l'allumage Retard sparking.

Rideau Curtain.

Ridelles Side timbers.

Rivet Rivet.

Robinet Tap.

Robinet a deux voies Two-way tap.

Robinet a trois debits pour Three-way water tap.
circulation d'eau

Robinet a trois voies Three-way tap.

Robinet de compression Compression tap.

Robinet de melange Twin tap; mixing tap.

Robinet de purge Blow through tap.

Robinet de purge pour carburateur Waste petrol tap.

Robinet de purge pour l'huile de Waste oil tap.

graissage

Robinet de reservoir Petrol tank tap.

Robinet de tuyauterie a essence Petrol pipe tap.

Robinet de vidange Drain tap.

Robinet pour alimentation de Lubricator tap.

graisseur

Roder To grind.

Rondelle Washer.

Rondelle d'amiant Asbestos washer.

Rondelle de pignon Sprocket wheel washer.

Rondelle de reglage de pompe Pump washer.

Rondelle Grover Split washer.

Rondelle pour bossage de rais Spoke washer.

Rotin Rattan.

Rotule, joint a Globe joint; universal joint.

Roulements a billes Ball bearings.

Roue Wheel.

Roue a ailettes pour pompe Pump fan.

Roue a cliquet Ratchet wheel.

Roue a gorge Grooved wheel.

Roue d'angle Bevel wheel.

Roue d'arriere Back wheel.

Roue d'artillerie Artillery wheel.

Roue d'avant Front wheel.

Roue de chaine Chain wheel.

Roue de commande de graisseur Lubricator wheel.

Roue de commande de marche Controlling wheel.

Roue de regulateur Governor wheel.

Roue de voiture Car wheel.

Roue dentee Cog wheel.

Roue directrice Steering wheel.

Roue ferree Iron tyred wheel.

Roue folle Free wheel.

Roue libre Free wheel.

Roue libre a billes Ball bearing free wheel.

Roue libre a cliquets Free wheel, ratchet clutch.

Roue libre a galets Free wheel, roller clutch.

Roue motrice Driving wheel.

Roue motrice Rear wheel.

Roue planetaire Planet wheel.

Roue pleine Solid wheel.

Roue quadruple Quadruple gear wheel.

Roue triple Triple gear wheel.

Roulant, tres Easy running.

Rouleau de chaine Chain roller.

Route Road.

Route cahotante Bumpy road.

Route carrossable Navigable road.

Route defoncee Loose road.

Route defoncee par le roulage Road broken up by traffic.

Route de grande communication Turnpike road.

Route departementale High road.

Route en lacets Ribbon road; winding road.

Route en pierres concassees Metalled road.

Route nationale Main road.

Route pavee Paved road.

Route praticable Rideable road.

Routiere Roadster.

Rupteur Trembler; contact breaker.

Chapter 43

S

Sabot Block.

Sabot bois pour interrupteur Wooden switch block.

Sabot de frein Brake spoon or shoe.

Sabot forme cuiller Spoon block.

Sac Bag.

Sac en toile caoutchoutée Waterproof bag.

Sacoche Tool bag.

Sans-chaine Chainless.

Sapin Fir.

Satellite Planetary member.

Satin, bois de Satin wood.

Schema Diagram.

Secours, boîte de Repair box.

Secteur Sector; quadrant.

Secteur dente Notched quadrant.

Secteur de levier de ralentisseur Accelerator sector.

Secteur pour avance à l'allumage Timing sector.

Secteur pour direction Steering quadrant.

Segment Segment.

Segment de piston Piston ring.

Selle Saddle.

Semelle Sole piece.

Serie de fils Set of wires.

Seringue Syringe.

Seringue de graissage Grease injector.

Serpentin Coil.

Serrage de selle Saddle clip.

Serre-fil Wire clamp.

Serre-rayon Spoke tightener.

Serrer le frein To apply the brake.

Sertisseur Tube expander.

Siege Seat.

Siege a coussins Cushioned seat.

Siege ajustable Adjustable seat.

Siege a ressorts Spring seat.

Siege a tissu metallique Wire seat.

Siege d'avant Front seat.

Siege de bois Wooden seat.

Siege de cuir Leather seat.

Siege de soupape Valve seating.

Siege en crin Hair seat.

Siege fixe Fixed seat.

Siege profond Well seat.

Siege rembourre Stuffed seat.

Siege tournant Revolving seat.

Siege triple de soupape Triple inlet valve seat.

d'aspiration

Silencieux Exhaust box; silencer.

Societe Club.

Socle Base.

Soie de manivelle Crank pin.

Sonnette Bell.

Sortie Outlet.

Soude par rapprochement Butt welded.

Soude par recouvrement Lap welded.

Soulevement Lift.

Soupape Valve.

Soupape a air Air valve.

Soupape a bille Ball valve.

Soupape a papillon Butterfly valve; throttle valve.

Soupape d'admission Inlet valve; induction valve.

Soupape d'arret Stop valve.

Soupape d'aspiration Inlet valve.

Soupape de detente Cut-off valve.

Soupape d'echappement Exhaust valve.

Soupape de retenue Check valve.

Soupape de surete Safety valve.

Soupape de trop-plein Relief valve.

Soupape en champignon Mushroom valve.

Soupape en champignon renverse Cup valve.

Soupape rotative Rotary valve.

Spruce Spruce.

Store Window blind.

Strapontin Bracket seat; folding seat.

Support Support.

Support de pompe Pump bracket.

Surchauffeur Superheater.

Surface de refroidissement Cooling surface.

Surface de roulement Tread.

Chapter 44

T

Tablier Apron; length available for carriage work.

Tablier d'arriere Tail board.

Tablier d'avant Front apron; front board.

Talc French chalk.

Talon Beaded edge of tyre cover.

Tambour Drum.

Tambour de frein Brake drum.

Tampon Plug; buffer.

Tampon d'allumage Sparking plug.

Tandem Tandem.

Tandem a moteur Motor tandem.

Tapis Carpet.

Taquet de soulevement de soupape Exhaust valve lifter.
d'echappement

Taraud Tap.

Tasseau de bois Wood clamp; block.

Te Tee.

Teck Teak.

Temps, a quatre Otto cycle.

Temps d'aspiration Suction stroke.

Temps de compression Compression stroke.

Temps d'échappement Exhaust stroke.

Temps d'explosion Explosion stroke.

Tendeur Jockey pulley.

Tendeur pour courroie Belt tightener.

Tendre To tighten.

Tenon Tenon; stud.

Tension de chaine Chain adjustment; *draw-link*.

Terebenthine Turpentine.

Tete Head; crown.

Tete affleuree Flush head.

Tete de bielle Connecting rod end.

Tete de butoir Buffer head.

Tete de fourche avant Front fork crown.

Tete fraisee Countersunk head.

Tete noyee Countersunk head.

Tete platinee Platinum tipped.

Tetine Nipple.

Thermosiphon Thermo syphon.

Tiers-point Triangular file.

Tige Rod; stem; spindle.

Tige a fourchette Fork rod.

Tige d'accélérateur Accelerator rod.

Tige de butee de debayage Rod for end of clutch shaft.

Tige du cliquet de levier de Change speed lever rod.

changement de vitesse

Tige de distribution Slide rod.

Tige d'excentrique Eccentric rod.

Tige de flotteur Float wire.

Tige de frein Brake rod.

Tige de levier de frein Rod for brake lever.

Tige de la pedale au yatagan Rod for clutch pedal.

Tige de la soupape de compression Stem of compression valve.

Tige de la soupape d'échappement Exhaust valve stem.

Tige de piston Piston rod.

Tige de poussoir d'échappement Exhaust valve lift rod.

Tige de ralentisseur Accelerator rod.

Tige de rappel de soupape Digger rod for exhaust valve.

d'échappement

Tige de selle Seat pillar.

Tige de soupape Valve spindle or stem.

Tige de tirage de frein Brake rod.

Tige entretoise Stay rod.

Tige entretoise de culasse Rod for single cylinder.

Timbre Bell.

Tirant Stay.

Tirant d'eau a vide Draught of water when empty.

Tirant d'eau en charge Draught of water when loaded.

Tirant de la fourche arriere Back fork bridge.

Tirant de radiateur Radiator stay.

Tirant des tubes montants Mudguard bridge.

Tire-goupille Pin extractor.

Tirette Prop.

Tiroir Slide valve.

Tiroir a coquille D valve.

Toc Guide; tappet.

Toc d'embrayage Guide for clutch cone.

Toc de levier de regulateur Guide for governor lever.

Toile Fabric (of tyre cover).

Toile d'amiant Asbestos cloth.

Toile d'eneri Emery cloth.

Toile dissolutionnee Canvas for repairing cover.

Toile gommee Canvas for repairing cover.

Toile metallique Wire gauze.

Toile treillis Ticking.

Tole Sheet of metal; sheet iron.

Tole emboutie Dished plate.

Tolerie Sheeting.

Tonnant Explosive.

Tonneau Tonneau.

Tordre une roue To buckle a wheel.

Torque Torque.

Touche Interrupter plug; contact.

Toucheau Contact piece.

Tour d'adresse Feat of skill.

Tour de force Feat of strength.

Tournee Tour.

Tournevis Screwdriver.

Tourillon Journal; pivot.

Tourillon de chaine Rivet of chain.

Tracteur Tractor.

Train balladeur Balladeur train.

Traits de force Shade lines.

Transmission a Cardan Arbor shaft system of transmission.

Trappe Flap door.

Travail de cisaillement Shearing strain.

Traverse Sole bar; beam.

Trembleur Contact breaker; trembler.

Trepidation Vibration.

Tresse Gasket; braid.

Tribune Stand.

Tricycle a chaine centrale Central gear tricycle.

Tricycle a moteur Motor tricycle.

Tricycle a roue directrice Front steerer tricycle. _
devant _

Tricycle compressible Collapsible tricycle.

Tricycle porteur Carrier tricycle.

Tricycle tandem Tandem tricycle.

Tringle de changement de vitesse Change speed rod.

Tringle de garde-boue Mudguard stay.

Tringle de relevage Drag link.

Tringles, a Wired on.

Trottoir Footpath.

Trottoir cyclable Cycle Path.

Trou graisseur Oil hole.

Trusquin a centrer Centering gauge.

Tube Tube.

Tube d'admission Induction pipe.

Tube caoutchouc Rubber tube.

Tube caoutchouc de valve Rubber sleeve of valve.

Tube d'alimentation Gaspipe to motor; feed pipe.

Tube d'arbre de l'helice Stern tube.

Tube d'echappement Exhaust pipe.

Tube d'entree d'air Air chimney.

Tube de direction Steering column; *head socket*.

Tube de frein Brake tube.

Tube de fourche arriere Bottom stay.

Tube de la pompe a huile au moteur Oil pipe to crank case.

Tube de niveau d'eau Water gauge glass.

Tube de platine Platinum tube.

Tube de prise d'air Air inlet pipe.

Tube de trop-plein Overflow pipe.

Tube diagonal Diagonal tube.

Tube du carburateur a la boite de Pipe from carburetter to
mixing

melange chamber.

Tube inferieur Bottom tube.

Tube interieur de direction Steering post.

Tube melangeur Mixing tube.

Tube montant arriere Back stay.

Tube pare-poussiere Dust cap tube.

Tube plongeur du guidon Handle bar stem.

Tube renforce Extra strong tube.

Tube sans soudure Seamless tube.

Tube superieur Top tube.

Tube tirant Stay tube.

Tubulure Nozzle; connection.

Tuyau Pipe.

Tuyauterie Tubing.

Tuyauterie d'aspiration Suction tubing.

Tuyauterie d'échappement Exhaust tubing.

Tuyere Nozzle.

Tuyere de carburateur Air nozzle for carburetter.

Chapter 45

U

Usine Factory.

Usure Wear and tear.

Chapter 46

V

Valve Valve.

Vapeur de decharge Exhaust steam.

Vaporisateur a pulverisation Spray vaporiser.

Vaporisation Steam production.

Vehicule Vehicle.

Velocipede; velo Cycle.

Ventilateur Ventilator; fan.

Verin Jack.

Vernir To japan.

Verre Glass.

Verrou Catch; bolt.

Verrou d'entourage Catch for bonnet door.

Verrou de levier de changement de Catch for change speed lever.

vitesse

Verrou de mise en marche Starting catch or bolt.

Victoria Victoria.

Vilebrequin Crank; crank shaft.

Virole Ferrule.

Vis Screw.

Vis a filet droit Right handed screw.

Vis a filet gauche Left handed screw.

Vis bouchon de purge Run off screw.

Vis d'axe de piston Screw for piston pin.

Vis de butee du rupteur Carpentier Screw for high speed trem-
bler

blade.

Vis de came de moteur Screw for governor cam.

Vis de clavetage de la douille de Screw for starting pin or bush.
mise en marche

Vis de collier de trompette Screw for horn bracket.

Vis de contact Contact screw.

Vis de couvercle de carburateur Screw for carburetter cover.

Vis de fixation Fixing screw.

Vis de fixation de la vis de Screw for fastening platinum
contact tipped screw.

Vis de marteau de came Governor hammer screw.

Vis de mecanique Brake screw.

Vis de poussee Thrust screw.

Vis de purge pour carburateur Waste petrol screw.

Vis de purge pour l'huile de Waste oil screw.

graissage

Vis de rappel Setscrew.

Vis de reglage Setscrew.

Vis de surete Setscrew.

Vis fixant la lame platinee a Screw for high speed trembler top
talon du rupteur Carpentier plate.

Vis graisseur pour chapeau Lubricator screw for wheel cap.
d'essieu

Vis platinee de contact Platinum tipped screw.

Vis pointeau de lampe de bruleur Screw tap for burner tank.

Vis pointeau de support de bruleur Screw tap for burner.

Vis pour direction Screw for steering.

Vis pour ralentisseur Screw for accelerator.

Vis sans fin Worm.

Visiter To examine.

Visser To screw.

Vitesse en prise directe, grande Direct drive on top speed.

Voie Road.

Voie impraticable Bad road.

Voie legere Light railway.

Voilee, roue Buckled wheel.

Voiture Car.

Voiture courante Ordinary car.

Voiture de course Racing car.

Voiture de livraison Parcels van.

Voiture de tourisme Touring car.

Voiture legere Light vehicle.

Voiture lourde Heavy vehicle.

Voiturette Runabout.

Voiturette remorque Trailer.

Volant Fly-wheel; hand wheel.

Volant a gorge Grooved wheel.

Volant de direction Steering wheel.

Volant de dynamo Dynamo wheel.

Volant de pompe Pump wheel.

Volant de regulateur Governor wheel.

Volet Shutter.

Voltmetre Voltmeter.

Vrac, en In bulk.

Chapter 47

W

Wagonnette Wagonette.

Chapter 48

Y

Yatagan Clutch lever.

Yeuse Live oak.

Chapter 49

Z

Zinc Zinc.

Chapter 50

LONDON: PRINTED
BY WILLIAM
CLOWES AND SONS,
LIMITED, GREAT
WINDMILL STREET,
W., AND DUKE
STREET, STAMFORD
STREET, S.E.

* * * * *

SHORT LIST August 1912

Chapter 51

A SHORT LIST OF

SCIENTIFIC BOOKS

Chapter 52

PUBLISHED BY

E. & F. N. SPON, Limited,
57 Haymarket, London, S.W.

SOLE ENGLISH AGENTS for the Books of—

MYRON C. CLARK, NEW YORK

SPON & CHAMBERLAIN, NEW YORK

PAGE AGRICULTURE

2 ARCHITECTURE

ALL BOOKS ARE BOUND IN CLOTH UNLESS OTHERWISE STATED.

NOTE: The Prices in this Catalogue apply to books sold in the United Kingdom only.

Chapter 53

AGRICULTURE.

=Hemp.= A Practical Treatise on the Culture for Seed and Fibre. By S. S. BOYCE. 13 illus. 112 pp. crown 8vo. (*New York, 1900*) *net* 2 0

=Farm Drainage.= By H. F. FRENCH. 100 illus. 284 pp. crown 8vo. (*New York, 1904*) *net* 4 6

=Spices and How to Know Them.= By W. M. GIBBS. With 47 plates, including 14 in colours, 179 pp. 8vo. (*New York, 1909*) *net* 15 0

=Talks on Manures.= By J. HARRIS. New edition, 366 pp. crown 8vo. (*New York, 1893*) *net* 6 6

=Coffee=, its Culture and Commerce in all Countries. By C. G. W. LOCK. 11 plates, 274 pp. crown 8vo. (*1888*) 12 6

=Sugar, a Handbook for Planters and Refiners.= By the late J. A. R. NEWLANDS and B. E. R. NEWLANDS. 236 illus. 876 pp. demy 8vo. (*1909*) *net* 1 5 0

=Hops=, their Cultivation, Commerce and Uses. By

P. L. SIMMONDS. 143 pp. crown 8vo. (*1877*) 4 6
=Estate Fences=, their Choice, Construction and
Cost. By A. VERNON. Re-issue, 150 illus.
420 pp. 8vo. (*1909*) *net* 8 6

Chapter 54

ARCHITECTURE AND BUILDING.

=Engineering Work in Public Buildings.= By

R. O. ALLSOP. 77 illus. 168 pp. demy 4to.

(1912) *net* 12 6

=The Hydropathic Establishment and its Baths.=

By R. O. ALLSOP. 8 plates, 107 pp. demy 8vo.

(1891) 5 0

=The Turkish Bath=, its Design and Construction.

By R. O. ALLSOP. 27 illus. 152 pp. demy 8vo.

(1890) 6 0

=Public Abattoirs=, their Planning, Design and Equipment.

By R. S. AYLING. 33 plates, 100 pp.

demy 4to. (1908) *net* 8 6

=The Builder's Clerk.= By T. BALES. Second

edition, 92 pp. fcap. 8vo. (1904) 1 6

=Glossary of Technical Terms= used in Architecture
and the Building Trades. By G. J. BURNS.

136 pp. crown 8vo. (1895) 3 6

=Chimney Design and Theory.= By W. W.

CHRISTIE. Second edition, 54 illus. 200 pp.

crown 8vo. (*New York, 1902*) *net* 12 6

=Approximate Estimates.= By T. E. COLEMAN.

Third ed. 481 pp. ob. 32mo, leather. (1907) *net* 5 0

=Stable Sanitation and Construction.= By T. E.

COLEMAN. 183 illus. 226 pp. crown 8vo. (1897) 6 0

=House Plans= and Building Construction for General
Contractors and House Builders. By M. M.

DUSTMAN. 511 illus. 239 pp. oblong folio. (*New
York, 1912*) *net* 8 6

=Architectural Examples= in Brick, Stone, Wood
and Iron. By W. FULLERTON. Third edition

245 plates, 254 pp. demy 4to. (1908) *net* 15 0

=Bricklaying System.= By F. B. GILBRETH. 240

illus. 321 pp. 8vo. (*New York, 1909*) *net* 12 6

=Field System.= By F. B. GILBRETH. 194 pp. 12mo.
leather. (*New York, 1908*) *net* 12 6

=The Building Trades Pocket Book.= Compiled
by R. HALL. 12mo. With diary *net* 1 0

=The Economics of Contracting.= By D. J. HAUER.

10 illus. viii. + 269 pp. crown 8vo. (*New York,
1911*) *net* 12 0

=The Clerk of Works' Vade Mecum.= By G. G.

HOSKINS. Seventh edition, 52 pp. fcap. 8vo. (1901) 1 6

=Paint and Colour Mixing.= By A. S. JENNINGS.

Fourth ed. 14 col. plates, 190 pp. 8vo. (1910) *net* 5 0

=A Handbook of Formulae, Tables, and Memoranda
for Architectural Surveyors.= By J. T.

HURST. Fifteenth edition, 512 pp. royal 32mo,
roan. (1905) *net* 5 0

=Quantity Surveying.= By J. LEANING. Fifth ed.
new impression, 936 pp. 8vo. (1912) *net* 1 5 0

=Builders' Quantities.= By H. M. LEWIS. 6 illus.
44 pp. cr. 8vo. (S. & C. SERIES No. 40.) (1911) *net* 1 6

=Obstruction to Light.= A Graphic Method of
determining Problems of Ancient Lights. By
H. B. MOLESWORTH. 9 folding plates, 4to. (1902) *net* 6 0

=Suburban Houses.= A series of practical plans.
By J. H. PEARSON. 46 plates and 12 pp. text,
crown 4to. (1905) *net* 7 6

=Solid Bitumens=, their Physical and Chemical
Properties. By S. F. PECKHAM. 23 illus. 324
pp. 8vo. (*New York, 1909*) 1 1 0

=Roman Architecture, Sculpture and Ornament.=
By G. B. PIRANESI. 200 plates, reproduced in
facsimile from the original. 2 vols. imperial folio,
in wrappers. (1900) *net* 2 2 0

=The Seven Periods of English Architecture=,
defined and illustrated. By E. SHARPE. Third
edition, 20 steel plates, royal 8vo. (1888) 12 6

=Our Factories, Workshops and Warehouses=,
their Sanitary and Fire-Resisting Arrangements.
By B. H. THWAITE. 183 ill. 282 pp. cr. 8vo. (1882) 9 0

=Elementary Principles of Carpentry.= By T.

TREDGOLD AND J. T. HURST. Eleventh edition,
 48 plates, 517 pp. crown 8vo. (*1904*) 12 6
 =Treatise on the Design and Construction of
 Mill Buildings.= By W. G. TYRRELL. 652 illus.
 490 pp. demy 8vo. (*New York, 1911*) *net* 17 0
 =Practical Stair Building and Handrailing.= By
 W. H. WOOD. 32 plates, 91 pp. crown 4to.
 (*1894*) 10 6
 =Spons' Architects' and Builders' Pocket Price-Book,
 Memoranda, Tables and Prices.= Edited
 by CLYDE YOUNG. Revised by STANFORD M.
 BROOKS. 16mo, leather cloth (size 6-1/2 in. by 3-3/4 in.
 by 1/2 in. thick). Issued annually in two Sections.
 =Prices and Diary=, in green cover, 239 pp.
 with Diary showing a week at an opening *net* 2 6
 =Memoranda and Tables=, in red cover. Illustrated,
 372 pp. *net* 2 6

Chapter 55

ARTILLERY.

=Guns and Gun Making Material.= By G. EDE.

Crown 8vo. (1889) 6 0

=Treatise on Application of Wire to Construction
of Ordnance.= By J. A. LONGRIDGE. 180 pp. 8vo.

(1884) 1 5 0

=The Progress of Artillery: Naval Guns.= By J. A.

LONGRIDGE. 8vo, sewed. (1896) 2 0

=The Field Gun of the Future.= By J. A. LONGRIDGE.

8vo, sewed. (1892) 2 6

Chapter 56

AVIATION.

=The Atmosphere=: its characteristics and dynamics.

By F. J. B. CORDEIRO. 35 illus. 129 pp. small
quarto. (*New York, 1910*) *net* 10 6

=Theory and Practice of Model Aeroplaning.= By
V. E. JOHNSON. 61 illus. 150 pp. crown 8vo.
(*1910*) *net* 3 6

=The Gyroscope, An Experimental Study.= By
V. E. JOHNSON. 34 illus. 40 pp. crown 8vo.
(S. & C. SERIES, No. 22.) (*1911*) *net* 1 6

=Natural Stability and the Parachute Principle
in Aeroplanes.= By W. LE MAITRE. 34 ill. 48
pp. cr. 8vo. (S. & C. SERIES No. 39.) (*1911*) *net* 1 6

=How to Build a 20-ft. Bi-plane Glider.= By
A. P. MORGAN. 31 illus. 60 pp. crown 8vo.
(S. & C. SERIES, No. 14.) (*New York, 1909*) *net* 1 6

=Flight-Velocity.= By A. SAMUELSON. 4 plates, 42
pp. 8vo, sewed. (*1906*) *net* 2 0

=Resistance of Air and the Question of Flying.=

By A. SAMUELSON. 23 illus. 36 pp. 8vo, sewed.

(1905) *net* 2 0

=Aeroplanes in Gusts, Soaring Flight and Aeroplane

Stability.= By S. L. WALKDEN. Demy

8vo. (*In the Press.*)

Chapter 57

BRIDGES, ARCHES, ROOFS, AND STRUCTURAL DESIGN.

=Strains in Ironwork.= By HENRY ADAMS. Fourth edition, 8 plates, 65 pp. crown 8vo. (1904) 5 0

=Designing Ironwork.= By HENRY ADAMS. Second series. 8vo, sewed.

Part I. A Steel Box Girder. (1894) *net* 0 9

" II. Built-up Steel Stanchions. (1901) *net* 1 3

" III. Cisterns and Tanks. (1902) *net* 1 0

" IV. A Fireproof Floor. (1903) *net* 1 0

=Columns and Struts.= Theory and Design. By WM. ALEXANDER. 101 illus. xii + 265 pp. demy 8vo. (1912) *net* 10 6

=A Practical Treatise on Segmental and Elliptical

Oblique or Skew Arches.= By G. J. BELL.

Second edition, 17 plates, 125 pp. royal 8vo.

(1906) *net* 1 1 0

=Economics of Construction= in relation to Framed Structures. By R. H. BOW. Third thousand,

16 plates, 88 pp. 8vo. (1873) 5 0

=Theory of Voussoir Arches.= By Prof. W. CAIN.

Third edition, 201 pp. 18mo, boards. (*New York*, 1905) *net* 2 0

=New Formulae for the Loads and Deflections= of Solid Beams and Girders. By W. DONALDSON.

Second edition, 8vo. (1872) 4 6

=Plate Girder Railway Bridges.= By M. FITZMAURICE.

4 plates, 104 pp. 8vo. (1895) 6 0

=Pocket Book of Calculations= in Stresses. By

E. M. GEORGE. 66 illus. 140 pp. royal 32mo, half roan. (1895) 3 6

=Strains on Braced Iron Arches= and Arched Iron

Bridges. By A. S. HEAFORD. 39 pp. 8vo. (1883) 6 0

=Tables for Roof Framing.= By G. D. INSKIP.

Second edition, 451 pp. 8vo, leather. (*New York*, 1905) *net* 12 6

=Stresses in Girder and Roof Frames=, for both dead and live loads, by simple Multiplication,

etc. By F. R. JOHNSON. 28 plates, 215 pp.

crown 8vo. (1894) 6 0

=A Graphical Method for Swing Bridges.= By

B. F. LA RUE. 4 plates, 104 pp. 18mo, boards.

(*New York, 1892*) *net* 2 0

=Bridge and Tunnel Centres.= By J. B. MCMASTERS.

Illustrated, 106 pp. 18mo, boards. (*New York,*

1893) *net* 2 0

=Notes on Cylinder Bridge Piers= and the Well

System of Foundations. By J. NEWMAN. 144 pp.

8vo. (*1893*) 6 0

=Calculation of Columns.= By T. NIELSEN. 4 plates,

36 pp. 8vo. cloth. (*1911*) *net* 4 6

=A New Method of Graphic Statics= applied in the

Construction of Wrought Iron Girders. By E.

OLANDER. 16 plates, small folio. (*1887*) 10 6

=Steel Bar and Plate Tables.= Giving Weight of a

Lineal Foot of all sizes of =L= and =T= Bars, Flat

Bars, Plates, Square and Round Bars. By E.

READ. On large folding card. (*1911*) *net* 1 0

=Reference Book for Statical Calculations.= By

F. RUFF. With diagrams, 140 pp. crown 8vo.

(*1906*) *net* 5 0

=Suspension Bridges and Cantilevers.= By D. B.

STEINMANN. vii. + 185 pp. 18mo, boards. (VAN

NOSTRAND SERIES, No. 127.) (*New York, 1911*) *net* 2 0

=The Strength and Proportion of Riveted Joints.=

By B. B. STONEY. 87 pp. 8vo. (*1885*) 5 0

=The Anatomy of Bridgework.= By W. H. THORPE.

103 illus. 190 pp. crown 8vo. (*1906*) *net* 6 0

Chapter 58

CEMENT AND CONCRETE.

=Portland Cement=: its Manufacture, Testing and Use, By D. B. BUTLER. Second edition, 97 illus.

396 pp. demy 8vo. (1905) *net* 16 0

=Theory of Steel-Concrete Arches= and of Vaulted Structures. By W. CAIN. Fourth edition, 27

illus. 212 pp. 18mo, boards. (*New York, 1906*) *net* 2 0

=Reinforced Concrete Construction. Elementary Course.= By M. T. CANTELL. 65 illus. 135 pp.

crown 8vo. (1911.) *net* 4 6

=Reinforced Concrete Construction. Advanced Course.= By M. T. CANTELL. 242 illus. xvi +

240 pp. super-royal 8vo. (1912) *net* 12 6

=Graphical Reinforced Concrete Design.= A series of Diagrams on sheets (measuring 17-1/2 in. by 22-1/2 in.) for Designing and Checking. With

48-page pamphlet. By J. A. DAVENPORT. Complete

in roll. (1911) *net* 5 0

=Cement Users' and Buyers' Guide.= By CALCARE.

115 pp. 32mo, cloth. (1901) *net* 1 6

=Diagrams for Designing Reinforced Concrete

Structures.= By G. F. DODGE. 31 illus. 104 pp.

oblong folio. (New York, 1910) *net* 17 0

=Cements, Mortars, and Concretes=; their Physical
properties. By M. S. FALK. 78 illus. 176 pp.

8vo. (New York, 1904) *net* 10 6

=Concrete Construction, Methods and Cost.= By

H. P. GILLETTE and C. S. HILL. 310 illus.

690 pp. 8vo. (New York, 1908) *net* 1 1 0

=Engineers' Pocket-Book of Reinforced Concrete.=

By E. L. HEIDENREICH. 164 illus. 364 pp. crown

8vo, leather, gilt edges. (New York, 1909) *net* 12 6

=Concrete Inspection.= By C. S. HILL. 15 illus.

179 pp. 12mo. (New York, 1909) *net* 4 6

=Practical Silo Construction.= By A. A. HOUGHTON.

18 illus. 69 pp. crown 8vo. (S. & C. SERIES,

No. 27.) (New York, 1911) *net* 1 6

=Molding Concrete Chimneys, Slate and Roof

Tiles.= By A. A. HOUGHTON. 15 illus. 61 pp.

crown 8vo. (S. & C. SERIES, No. 28.) (New

York, 1911) *net* 1 6

=Molding and Curing Ornamental Concrete.= By

A. A. HOUGHTON. 5 illus. 58 pp. crown 8vo.

(S. & C. SERIES, No. 29.) (New York, 1911) *net* 1 6

=Concrete Monuments, Mausoleums and Burial

Vaults.= By A. A. HOUGHTON. 18 illus. 65 pp.

crown 8vo. (S. & C. SERIES, No. 31.) (*New*

York, 1911) *net* 1 6

=Concrete Floors and Sidewalks.= By A. A.

HOUGHTON. 8 illus. 63 pp. crown 8vo. (S. & C.

SERIES, No. 32.) (*New York, 1911*) *net* 1 6

=Molding Concrete Baths, Tubs, Aquariums and

Natatoriums.= By A. A. HOUGHTON. 16 illus.

64 pp. crown 8vo. (S. & C. SERIES, No. 33.)

(*New York, 1911*) *net* 1 6

=Concrete Bridges, Culverts and Sewers.= By

A. A. HOUGHTON. 14 illus. 58 pp. crown 8vo.

(S. & C. SERIES, No. 34.) (*New York, 1912*) *net* 1 6

=Constructing Concrete Porches.= By A. A.

HOUGHTON. 18 illus. 62 pp. crown 8vo. (S. &

C. SERIES, No. 35.) *net* 1 6

=Molding Concrete Flower-Pots, Boxes, Jardinieres=,

etc. By A. A. HOUGHTON. 8 illus.

52 pp. crown 8vo. (S. & C. SERIES, No. 36.)

(*New York, 1912*) *net* 1 6

=Molding Concrete Fountains and Lawn Ornaments.=

By A. A. HOUGHTON. 14 illus. 56 pp.

crown 8vo. (S. & C. SERIES, No. 37.) (*New York,*

1912) *net* 1 6

=Reinforced Concrete.= By E. MCCULLOCH. 28

illus. 128 pp. crown 8vo. (*New York, 1908*) *net* 6 6

=Concrete and Reinforced Concrete.= By H. A.

REID. 715 illus. 884 pp. royal 8vo. (*New York,*

1907) *net* 21 0

=Theory and Design of Reinforced Concrete

Arches.= By A. REUTERDAHL. 41 illus. 126 pp.

8vo. (*New York, 1908*) *net* 8 6

=Specification for Concrete Flags.= Issued by the

INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS.

Folio, sewed. (*1911*) *net* 2 6

=Practical Cement Testing.= By W. P. TAYLOR.

With 142 illus. 329 pp. demy 8vo. (*New York,*

1906) *net* 12 6

=Concrete Bridges and Culverts.= By H. G.

TYRRELL. 66 illus. 251 pp. cr. 8vo, leather. *net* 12 6

Chapter 59

CIVIL ENGINEERING.

CANALS, SURVEYING.

(*See also* IRRIGATION *and* WATER SUPPLY.)

=Practical Hints to Young Engineers Employed
on Indian Railways.= By A. W. C. ADDIS.

With 14 illus. 154 pp. 12mo. (1910) *net* 3 6

=Levelling=, Barometric, Trigonometric and Spirit.

By I. O. BAKER. Second edition, 15 illus. 145
pp. 18mo, boards. (New York, 1903) *net* 2 0

=Punjab Rivers and Works.= By E. S. BELLASIS.
47 illus. 85 pp. folio, cloth. (1911) *net* 8 0

=Notes on Instruments= best suited for Engineering
Field Work in India and the Colonies. By

W. G. BLIGH. 65 illus. 218 pp. 8vo. (1899) 7 6

=Practical Designing of Retaining Walls.= By
Prof. W. CAIN. Fifth edition, 14 illus. 172 pp.

18mo, boards. (New York, 1908) *net* 2 0

=Land Area Tables.= By W. CODD. Sheet mounted on linen, in cloth case, with explanatory booklet 3 6

=The Maintenance of Macadamised Roads.= By T. CODRINGTON. Second ed., 186 pp. 8vo. (1892) 7 6

=The Civil Engineers' Cost Book.= By MAJOR T. E. COLEMAN, R.E. xii. + 289 pp. Pocket size (6-1/2 in. x 3-5/8 in.), leather cloth. (1912) *net* 5 0

=Retaining Walls in Theory and Practice.= By T. E. COLEMAN. 104 ill. 160 pp. cr. 8vo. (1909) *net* 5 0

=On Curved Masonry Dams.= By W. B. COVENTRY. 8vo, sewed. (1894) 2 0

=A Practical Method of Determining the Profile of a Masonry Dam.= By W. B. COVENTRY. 8vo, sewed. (1894) 2 6

=The Stresses on Masonry Dams= (oblique sections). By W. B. COVENTRY. 8vo, sewed. (1894) 2 0

=Handbook of Cost Data for Contractors and Engineers.= By H. P. GILLETTE. 1854 pp. crown 8vo, leather, gilt edges. (New York, 1910) *net* 1 1 0

=Rock Excavation, Methods and Cost.= By H. P. GILLETTE. *New edition in preparation.*

=High Masonry Dams.= By E. S. GOULD. With illus. 88 pp. 18mo, boards. (New York, 1897) *net* 2 0

=Railway Tunnelling= in Heavy Ground. By C. GRIPPER. 3 plates, 66 pp. royal 8vo. (1879) 7 6

=Levelling and its General Application.= By T. HOLLOWAY. (*Third edition in preparation*)

=Waterways and Water Transport.= By J. S. JEANS. 55 illus. 520 pp. 8vo. (1890) net 9 0

=Table of Barometrical Heights to 20,000 Feet.= By LT.-COL. W. H. MACKESY. 1 plate, 24 pp. royal 32mo. (1882) 3 0

=Aid Book to Engineering Enterprise.= By E. MATHESON. Third edition, illustrated, 916 pp. medium 8vo, buckram. (1898) 1 4 0

=A Treatise on Surveying.= By R. E. MIDDLETON and O. CHADWICK. Third edition, royal 8vo. (1911) Part I. 11 plates 162 illus. 285 pp. 10 6
 " II. 152 illus. and 2 plates, 340 pp. 10 6

=A Pocket Book of Useful Formulae and Memoranda=, for Civil and Mechanical Engineers. By Sir G. L. MOLESWORTH and H. B. MOLESWORTH. With an Electrical Supplement by W. H. MOLESWORTH. Twenty-sixth edition, 760 illus. 901 pp. royal 32mo, French morocco, gilt edges. (1908) net 5 0

=The Pocket Books of Sir G. L. Molesworth and J. T. Hurst=, printed on India paper and bound in one vol. Royal 32mo, russia, gilt edges net 10 6

=Metallic Structures: Corrosion and Fouling and their Prevention.= By J. NEWMAN. Illustrated, 385 pp. crown 8vo. (1896) 9 0

=Scamping Tricks and Odd Knowledge= occasionally practised upon Public Works. By J. NEWMAN. New imp., 129 pp. cr. 8vo. (1908) net 2 0

=Co-ordinate Geometry= applied to Land Surveying.

By W. PILKINGTON. 5 illus. 44 pp. 12mo.

(1909) *net* 1 6

=Pioneering.= By F. SHELFORD. Illustrated, 88 pp.

crown 8vo. (1909) *net* 3 0

=Topographical Surveying.= By G. J. SPECHT.

Second edition, 2 plates and 28 illus. 210 pp. 18mo,

boards. (*New York, 1898*) *net* 2 0

=Spons' Dictionary of Engineering=, Civil, Mechanical,
Military and Naval. 10,000 illus. 4300 pp.

super royal 8vo. (1874, *Supplement issued in 1881*).

Complete, in 4 vols. *net* 3 3 0

=Surveying and Levelling Instruments.= By W. F.

STANLEY. (*Fourth edition in preparation*)

=Surveyor's Handbook.= By T. U. TAYLOR. 116

illus. 310 pp. crown 8vo, leather, gilt edges.

(*New York, 1908*) *net* 8 6

=Logarithmic Land Measurement.= By J. WALLACE.

32 pp. royal 8vo. (1910) *net* 5 0

=The Drainage of Fens and Low Lands= by

Gravitation and Steam Power. By W. H.

WHEELER. 8 plates, 175 pp. 8vo. (1888) 12 6

=Stadia Surveying=, the theory of Stadia Measurements.

By A. WINSLOW. Fifth edition, 148 pp.

18mo, boards. (*New York, 1902*) *net* 2 0

=Handbook on Tacheometrical Surveying.= By

C. XYDIS. 55 illus. 3 plates, 63 pp. 8vo. (1909) *net* 6 0

Chapter 60

CURVE TABLES.

=Grace's Tables for Curves=, with hints to young engineers. 8 figures, 43 pp. oblong 8vo. (1908) *net* 5 0

=Railroad Curves and Earthwork.= By C. F.

ALLEN. Third edition, 4 plates, 198 pp. 12mo, leather, gilt edges. (New York, 1908) *net* 8 6

=Data relating to Railway Curves and Superelevations=, shown graphically. By J. H. HAISTE.

On folding card for pocket use *net* 0 6

=Tables for setting-out Railway Curves.= By C. P.

HOGG. A series of cards in neat cloth case 4 6

=Tables for setting out Curves= for Railways, Roads, Canals, *etc.* By A. KENNEDY and R. W. HACKWOOD. 32mo *net* 2 0

=Spiral Tables.= By J. G. SULLIVAN. 47 pp. 12mo, leather. (New York, 1908) *net* 6 6

=Tables for Setting out Curves= from 101 to 5000 feet radius. By H. A. CUTLER and F. J. EDGE.

Royal 32mo *net* 2 0

=Tables of Parabolic Curves= for the use of Railway
Engineers and others. By G. T. ALLEN. Fcap.

16mo 4 0

=Transition Curves.= By W. G. FOX. 18mo, boards.

(*New York*) *net* 2 0

Chapter 61

DICTIONARIES.

=Technological Dictionary in the English, Spanish,
German and French Languages.= By D.

CARLOS HUELIN Y ARSSU. Crown 8vo.

Vol. I. ENGLISH-SPANISH-GERMAN-FRENCH.

609 pp. (1906) *net* 10 6

Vol. II. GERMAN-ENGLISH-FRENCH-SPANISH.

720 pp. (1908) *net* 10 6

Vol. III. FRENCH-GERMAN-SPANISH-ENGLISH.

In preparation.

Vol. IV. SPANISH-FRENCH-ENGLISH-GERMAN.

750 pp. (1910) *net* 10 6

=Dictionary of English and Spanish Technical
and Commercial Terms.= By W. JACKSON.

164 pp. fcap. 8vo. (1911) *net* 2 6

=English-French and French-English Dictionary
of the Motor-Car, Cycle and Boat.= By F.

LUCAS. 171 pp. crown 8vo. (1905) *net* 2 0

=Spanish-English Dictionary of Mining Terms.=

By F. LUCAS. 78 pp. 8vo.(1905) *net* 5 0

=English-Russian and Russian-English Engineering

Dictionary.= By L. MEYCLIAR. 100 pp.

16mo. (1909) *net* 2 6

Chapter 62

DOMESTIC ECONOMY.

=Food Adulteration and its Detection.= By J. P.

BATTERSHALL. 12 plates, 328 pp. demy 8vo.

(*New York, 1887*) 15 0

=Practical Hints on Taking a House.= By H. P.

BOULNOIS. 71 pp. 18mo. (*1885*) 1 6

=The Cooking Range=, its Failings and Remedies.

By F. DYE. 52 pp. fcap. 8vo, sewed. (*1888*) 0 6

=Spices and How to Know Them.= By W. M.

GIBBS. With 47 plates, including 14 in colours,

179 pp. 8vo. (*New York, 1909*) *net* 15 0

=The Kitchen Boiler and Water Pipes.= By H.

GRIMSHAW. 8vo, sewed. (*1887*) *net* 1 0

=Cookery and Domestic Management=, including
economic and middle class Practical Cookery.

By K. MELLISH. 56 coloured plates and 441

illus. 987 pp. super-royal 8vo. (*1901*) *net* 16 0

=Spons' Household Manual.= 250 illus. 1043 pp.

demy 8vo. (*1902*) 7 6

Ditto ditto half-bound French

morocco 9 0

Chapter 63

DRAWING.

=The Ornamental Penman's=, Engraver's and Sign
Writer's Pocket Book of Alphabets. By B.

ALEXANDER. Oblong 12mo, sewed 0 6

=Slide Valve Diagrams=: a French Method for their
Construction. By L. BANKSON. 18mo, boards.

(*New York, 1892*) *net* 2 0

=A System of Easy Lettering.= By J. H. CROMWELL.
With Supplement by G. MARTIN. Eleventh

edition, 36 pp. oblong 8vo. (*New York, 1911*) *net* 2 0

=Key to the Theory and Methods of Linear Perspective=,
By C. W. DYMOND, F.S.A. 6 plates,

32 pp. cr. 8vo. (S. & C. SERIES, No. 20.) (*1910*) *net* 1 6

=Plane Geometrical Drawing.= By R. C. FAWDRY.

Illustrated, 185 pp. crown 8vo. (*1901*) *net* 3 0

=Twelve Plates on Projection Drawing.= By O.

GUETH. Oblong 4to. (*New York, 1903*) *net* 3 0

=Hints on Architectural Draughtsmanship.= By

G. W. T. HALLATT. Fourth edition, 80 pp.

18mo. (1906) *net* 1 6

=A First Course of Mechanical Drawing= (Tracing).

By G. HALLIDAY. Oblong 4to, sewed 2 0

=A Text-Book of Graphic Statics.= By C. W.

MALCOLM. 155 illus. 316 pp. 8vo. (*New York*,
1909) *net* 12 6

=Drawings for Medium-sized Repetition Work.=

By R. D. SPINNEY. With 47 illus. 130 pp. 8vo.
(1909). *net* 3 6

=Mathematical Drawing Instruments.= By W. F.

STANLEY. Seventh edition, 265 illus. 370 pp.

crown 8vo. (1900) 5 0

=The Backbone of Perspective.= By T. U. TAYLOR.

40 illus. 56 pp. 18mo cloth. (*New York*, 1911) *net* 4 6

Chapter 64

EARTHWORK.

=Tables for Computing the Contents of Earthwork=
in the Cuttings and Embankments of

Railways. By W. MACGREGOR. Royal 8vo 6 0

=Tables for facilitating the Calculation of Earthworks.=
By D. CUNNINGHAM. 120 pp. royal 8vo 10 6

=Grace's Earthwork Tables.= 36 double-page tables,
4to. (1907) *net* 12 6

=Earthwork Slips and Subsidences= on Public
Works. By J. NEWMAN. 240 pp. cr. 8vo. (1890) 7 6

=Diagrams for the Graphic Calculation of Earthwork
Quantities.= By A. H. Roberts. Ten
cards, fcap. in cloth case *net* 10 6

Chapter 65

ELECTRICAL ENGINEERING.

=Practical Electric Bell Fitting.= By F. C. ALLSOP.

Tenth edition, 186 illus. including 8 folding plates,

185 pp. crown 8vo. (*1903*) 3 6

=Telephones=: their Construction and Fitting. By

F. C. ALLSOP. Eighth edition, new impression,

184 illus. 222 pp. crown 8vo. (*1912*) *net* 3 6

=Auto-Transformer Design.= By A. H. AVERY.

25 illus. 60 pp. 8vo. (*1909*) *net* 3 6

=Principles of Electric Power= (Continuous Current)

for Mechanical Engineers. By A. H. BATE.

63 illus. 204 pp. crown 8vo. (*1905*) (FINSBURY

TECHNICAL MANUAL) *net* 4 6

=Practical Construction of Electric Tramways.=

By W. R. BOWKER. 93 illus. 119 pp. 8vo. (*1903*) *net* 6 0

=The Electric Motor and its Practical Operation.=

By E. E. BURNS. 78 illus. vi + 91 pp. crown

8vo. (*New York, 1912*) *net* 7 0

=Electrical Ignition for Internal Combustion

Engines.= By M. A. CODD. 109 illus. 163 pp.

crown 8vo. (*1911*) *net* 3 0

=Design and Construction of Induction Coils.=

By A. F. COLLINS. 155 illus. 272 pp. demy 8vo.

(*New York, 1909*) *net* 12 6

=Plans and Specification for Wireless Telegraph

Sets.= By A. F. COLLINS. Crown 8vo. (S. & C.

SERIES, NOS. 41 AND 42). (*New York, 1912*)

each net 1 6

PART I. An Experimental Set and a One

to Five Miles Set. 37 illus.

viii + 45 pp.

PART II. A Five to Ten Mile Set and a

Ten to Twenty Mile Set. 63

illus. viii + 72 pp.

=Switchboard Measuring Instruments= for Continuous
and Polyphase Currents. By J. C.

CONNAN. 117 illus. 150 pp. 8vo. (*1908*) *net* 5 0

=Electric Cables, their Construction and Cost.=

By D. COYLE and F. J. O. HOWE. With many

diagrams and 216 tables, 466 pp. crown 8vo,

leather. (*1909*) *net* 15 0

=Management of Electrical Machinery.= By F. B.

CROCKER and S. S. WHEELER. Eighth edition,

131 illus. 223 pp. crown 8vo. (*New York, 1909*) *net* 4 6

=Electric Lighting=: A Practical Exposition of the

Art. By F. B. CROCKER. Royal 8vo. (*New York.*)
 Vol. I. =The Generating Plant.= Sixth
 edition, 213 illus. 470 pp. (1904) *net* 12 6
 Vol. II. =Distributing Systems and
 Lamps.= Second edition, 391 illus.
 505 pp. (1905) *net* 12 6
 =The Care and Management of Ignition Accumulators.=
 By H. H. U. CROSS. 12 illus. 74
 pp. crown 8vo. (S. & C. SERIES, No. 19.) (1910) *net* 1 6
 =Elements of Telephony.= By A. CROTCH. 51 illus.
 90 pp. cr. 8vo. (S. & C. SERIES, No. 21.) (1911) *net* 1 6
 =Elementary Telegraphy and Telephony.= By
 ARTHUR CROTCH. New impression, 238 illus. viii
 + 223 pp. 8vo. (FINSBURY TECHNICAL MANUAL.)
 (1912) *net* 4 6
 =Electricity and Magnetism in Telephone Maintenance.=
 By G. W. CUMMINGS. 45 illus. 137 pp.
 8vo. (*New York, 1908*) *net* 6 6
 =Grouping of Electric Cells.= By W. F. DUNTON.
 4 illus. 50 pp. fcap. 8vo. (1906) *net* 1 6
 =Wireless Telegraphy for Intending Operators.=
 By C. K. P. EDEN. 20 illus. 80 pp. crown 8vo.
 (S. & C. SERIES, No. 24.) *In preparation.*
 =Magnets and Electric Currents.= By Prof. J. A.
 FLEMING. Second edition, 136 illus. 417 pp.
 crown 8vo. (1902) *net* 5 0
 =Notes on Design of Small Dynamo.= By GEORGE
 HALLIDAY. Second edition, 8 plates, 8vo. (1895) 2 6

=Practical Alternating Currents and Power
 Transmission.= By N. HARRISON. 172 illus.
 375 pp. crown 8vo. (*New York, 1906*) *net* 10 6
 =Making Wireless Outfits.= By N. HARRISON. 27
 illus. 61 pp. crown 8vo. (S. & C. SERIES, No.
 11.) (*New York, 1909*) *net* 1 6
 =Wireless Telephone Construction.= By N. HARRISON.
 43 illus. 73 pp. crown 8vo. (S. & C.
 SERIES, No. 12.) (*New York, 1909*) *net* 1 6
 =Testing Telegraph Cables.= By Colonel V. HOSKIOER.
 Third edition, 11 illus. viii + 75 pp.
 crown 8vo. (*1889*) 4 6
 =Long Distance Electric Power Transmission.=
 By R. W. HUTCHINSON. 136 illus. 345 pp. crown
 8vo. (*New York, 1907*) *net* 12 6
 =Theory and Practice of Electric Wiring.= By
 W. S. IBBETSON. 119 ill. 366 pp. cr. 8vo. (*1909*) *net* 5 0
 =Practical Electrical Engineering for Elementary
 Students.= By W. S. IBBETSON. 61 illus. 155
 pp. crown 8vo. (*1910*) *net* 3 6
 =Form of Model General Conditions= recommended
 by THE INSTITUTION OF ELECTRICAL
 ENGINEERS for use in connection with Electrical
 Contracts. *New edition in preparation.*
 =Telegraphy for Beginners.= By W. H. JONES. 19
 illus. 58 pp. crown 8vo. (*New York, 1910*) *net* 2 0
 =A Handbook of Electrical Testing.= By H. R.
 KEMPE. Seventh edition, 285 illus. 706 pp. demy

8vo. (1908) *net* 18 0

=Electromagnets=, their design and construction. By
A. N. MANSFIELD. 36 illus. 155 pp. 18mo, boards.

(*New York, 1901*) *net* 2 0

=Telephone Construction, Methods and Cost.=

By C. MAYER. With Appendices on the cost of
materials and labour by J. C. SLIPPY. 103 illus.

284 pp. crown 8vo. (*New York, 1908*) *net* 12 6

=Storage Batteries, Stationary and Portable.=

By J. P. NIBLETT. 22 illus. 80 pp. crown 8vo.

(*New York, 1911*) *net* 2 6

=House Wiring.= By T. W. POPPE. 73 illus. 103 pp.

12mo, limp. (*New York, 1912*) *net* 3 0

=Practical Electrics=: a Universal Handybook on

Every Day Electrical Matters. Seventh edition,

126 illus. 135 pp. 8vo. (S. & C. SERIES, No. 13.)

(*New York, 1902*) *net* 1 6

=Electroplating.= By H. C. REETZ. 62 illus. 99 pp.

crown 8vo. (NEW YORK, 1911) *net* 2 0

=Wiring Houses for the Electric Light.= By N. H.

SCHNEIDER. 40 illus. 85 pp. crown 8vo. (S. &

C. SERIES, No. 25.) (*New York, 1911*) *net* 1 6

=Induction Coils.= By N. H. SCHNEIDER. Second

edition, 79 illus. 285 pp. crown 8vo. (*New York,*

1901) *net* 4 6

=Electric Gas Lighting.= By N. H. SCHNEIDER.

57 illus. 101 pp. cr. 8vo. (S. & C. SERIES, No. 8).

(*New York, 1901*) *net* 1 6

=How to Install Electric Bells, Annunciators and Alarms.= By N. H. SCHNEIDER. 59 illus. 63 pp. crown 8vo, limp. (S. & C. SERIES, No. 2.) (*New York, 1905*) *net* 1 6

=Modern Primary Batteries=, their construction, use and maintenance. By N. H. SCHNEIDER. 54 illus. 94 pp. crown 8vo. (S. & C. SERIES, No. 1.) (*New York, 1905*) *net* 1 6

=Practical Engineers' Handbook on the Care and Management of Electric Power Plants.= By N. H. SCHNEIDER. 203 illus. 274 pp. crown 8vo. (*New York, 1906*) *net* 5 0

=Electrical Circuits and Diagrams=, illustrated and explained. By N. H. SCHNEIDER. 8vo. (S. & C. SERIES, NOS. 3 AND 4.) (*New York*) No. 3, Part 1. *New edition in preparation.*

No. 4, Part 2. 73 pp. (*1909*) *net* 1 6

=Electrical Instruments and Testing.= By N. H. SCHNEIDER. Third edition. 133 illus. 239 pp. crown 8vo. (*New York, 1907*) *net* 4 6

=Experimenting with Induction Coils.= By N. H. SCHNEIDER. 26 illus. 73 pp. crown 8vo. (S. & C. SERIES, No. 5.) (*New York, 1906*) *net* 1 6

=Study of Electricity for Beginners.= By N. H. SCHNEIDER. 54 illus. 88 pp. crown 8vo. (S. & C. SERIES, No. 6.) (*New York, 1905*) *net* 1 6

=Wiring Houses for the Electric Light=: Low Voltage Battery Systems. 44 illus. 86 pp. crown

8vo. (S. & C. SERIES, No. 25.) (*New York, 1911*) *net* 1 6
 =Low Voltage Electric Lighting with the Storage
 Battery.= By N. H. SCHNEIDER. 23 illus. 85 pp.
 crown 8vo. (S. & C. SERIES, No. 26.) (*New York,*
1911) *net* 1 6
 =Dry Batteries=: how to Make and Use them. By a
 DRY BATTERY EXPERT. With additional notes
 by N. H. SCHNEIDER. 30 illus. 59 pp. crown 8vo.
 (S. & C. SERIES, No. 7.) (*New York, 1905*) *net* 1 6
 =The Diseases of Electrical Machinery.= By
 E. SCHULZ. Edited, with a Preface, by Prof.
 S. P. THOMPSON. 42 illus. 84 pp. crown 8vo *net* 2 0
 =Electricity Simplified.= By T. O. SLOANE. Tenth
 edition, 29 illus. 158 pp. crown 8vo. (*New York,*
1901) *net* 4 6
 =How to become a Successful Electrician.= By
 T. O. SLOANE. Third edition, 4 illus. 202 pp.
 crown 8vo. (*New York, 1899*) *net* 4 6
 =Electricity=: its Theory, Sources and Applications.
 By J. T. SPRAGUE. Third edition, 109 illus.
 658 pp. crown 8vo (*1892*) *net* 7 6
 =Telegraphic Connections.= By C. THOM and
 W. H. JONES. 20 plates, 59 pp. oblong 8vo. (*New*
York, 1892) *net* 3 6
 =Dynamo Electric Machinery.= By Prof. S. P.
 THOMPSON. Seventh edition, demy 8vo. (FINSBURY
 TECHNICAL MANUAL.)
 Vol. I. =Continuous-Current Machinery.=

With 4 coloured and 30 folding
 plates, 573 illus. 984 pp. (*1904*) *net* 1 10 0
 Vol. II. =Alternating Current Machinery.=
 15 coloured and 24 folding plates,
 546 illus. 900 pp. (*1905*) *net* 1 10 0
 =Design of Dynamos= (Continuous Currents). By
 Prof. S. P. THOMPSON. 4 coloured and 8 folding
 plates, 243 pp. demy 8vo. (*1903*) *net* 12 0
 =Schedule for Dynamo Design=, issued with the
 above. 6_d._ each, 4_s._ per doz., or 18_s._ per 100 *net*
 =Curves of Magnetic Data for Various Materials.=
 A reprint on transparent paper for office use of
 Plate I from Dynamo Electric Machinery, and
 measuring 25 in. by 16 in. *net* 0 7
 =The Electromagnet.= By C. R. UNDERHILL. 67
 illus. 159 pp. crown 8vo. (*New York, 1903*) *net* 6 6
 =Practical Guide to the Testing of Insulated
 Wires and Cables.= By H. L. WEBB. Fifth
 edition, 38 illus. 118 pp. crown 8vo. (*New York,*
1902) *net* 4 6
 =Wiring Rules.= With Extracts from the Board of
 Trade Regulations and the Home Office Regulations
 for Factories and Workshops. Issued by
 =The Institution of Electrical Engineers.=
 Sixth edition, 42 pp. 8vo, sewed. (*1911*) *net* 0 6

Chapter 66

FOREIGN EXCHANGE.

=English Prices with Russian Equivalents= (at Fourteen Rates of Exchange). English prices per lb., with equivalents in roubles and kopecks per pood. By A. ADIASSEWICH. 182 pp. fcap. 32mo, roan. (*1908*) *net* 1 0

=English Prices with German Equivalents= (at Seven Rates of Exchange). English prices per lb., with equivalents in marks per kilogramme. By ST. KOCZOROWSKI. 95 pp. fcap. 32mo, roan. (*1909*) *net* 1 0

=English Prices with Spanish Equivalents.= At Seven Rates of Exchange. English prices per lb., with equivalents in pesetas per kilogramme. By S. LAMBERT. 95 pp. 32mo, roan. (*1910*) *net* 1 0

=English Prices with French Equivalents= (at Seven Rates of Exchange). English prices per

lb. to francs per kilogramme. By H. P.

MCCARTNEY. 97 pp. 32mo, roan. (1907) *net* 1 0

=Principles of Foreign Exchange.= By E. MATHESON.

Fourth edition, 54 pp. 8vo, sewed. (1905) *net* 0 3

Chapter 67

GAS AND OIL ENGINES.

=The Theory of the Gas Engine.= By D. CLERK.

Edited by F. E. IDELL. Third edition, 19 illus.

180 pp. 18mo, boards. (*New York, 1903*) *net* 2 0

=Electrical Ignition for Internal Combustion

Engines.= By M. A. CODD. 109 illus. 163 pp.

crown 8vo. (*1911*) *net* 3 0

=The Design and Construction of Oil Engines.=

By A. H. GOLDINGHAM. Third edition, 112

illus. 260 pp. crown 8vo. (*New York, 1910*) *net* 10 6

=Gas Engine in Principle and Practice.= By A. H.

GOLDINGHAM. New Impression. 107 illus. 195 pp.

8vo. (*New York, 1912*) *net* 6 6

=Practical Hand-Book on the Care and Management
of Gas Engines.= By G. LIECKFELD.

Third edition, square 16mo. (*New York, 1896*) 3 6

=Elements of Gas Engine Design.= By S. A. MOSS.

197 pp. 18mo, boards. (*New York, 1907*) *net* 2 0

=Gas and Petroleum Engines.= A Manual for Students
and Engineers. By Prof. W. ROBINSON.

(FINSBURY TECHNICAL MANUAL.) *Third edition in
preparation*

Chapter 68

GAS LIGHTING.

=Gas Analyst's Manual= (incorporating Hartley's
"Gas Analyst's Manual" and "Gas Measurement").

By J. ABADY. 102 illus. 576 pp. demy

8vo. (1902) *net* 18 0

=Gas Works=: their Arrangement, Construction, Plant
and Machinery. By F. COLYER. 31 folding

plates, 134 pp. 8vo. (1884) *net* 8 6

=Transactions of the Institution of Gas Engineers.=

Edited by WALTER T. DUNN, *Secretary*.

Published annually. 8vo *net* 10 6

=Lighting by Acetylene.= By F. DYE. 75 illus.

200 pp. crown 8vo. (1902) *net* 6 0

=A Comparison of the English and French

Methods of Ascertaining the Illuminating

Power of Coal Gas.= By A. J. VAN EIJNDHOVEN.

Illustrated, crown 8vo. (1897) 4 0

=Gas Lighting and Gas Fitting.= By W. P. GERHARD.

Second edition, 190 pp. 18mo, boards. (*New York, 1894*) *net* 2 0

=A Treatise on the Comparative Commercial
Values of Gas Coals and Cannels.= By D. A.

GRAHAM. 3 plates, 100 pp. 8vo. (*1882*) 4 6

=The Gas Engineers Laboratory Handbook.= By
J. HORNBY. Third edition, revised, 70 illus. 330
pp. crown 8vo. (*1911*) *net* 6 0

Chapter 69

HISTORICAL AND BIOGRAPHICAL.

=Extracts from the Private Letters of the late
Sir William Fothergill Cooke=, 1836-9, relating
to the Invention and Development of the Electric
Telegraph; also a Memoir by LATIMER CLARK.

Edited by F. H. WEBB, Sec. Inst. E.E. 8vo. (1895) 3 0

=A Chronology of Inland Navigation= in Great
Britain. By H. R. DE SALIS. Crown 8vo. (1897) 4 6

=A History of Electric Telegraphy= to the year
1837. By J. J. FAHIE. 35 illus. 542 pp. crown 8vo.
(1889) 2 0

=History and Development of Steam Locomotion
on Common Roads.= By W. FLETCHER. 109
illus. 288 pp. 8vo. 5 0

=Life as an Engineer=: its Lights, Shades, and
Prospects. By J. W. C. HALDANE. New edition,
23 plates, 390 pp. crown 8vo. (1910) *net* 5 0

=Philipp Reis=, Inventor of the Telephone: a Biographical
Sketch. By Prof. S. P. THOMPSON.

8vo, cloth. (*1883*) 7 6

=The Development of the Mercurial Air Pump.=
By Prof. S. P. THOMPSON. Illustrated, royal 8vo,
sewed. (*1888*) 1 6

Chapter 70

HOROLOGY.

=Watch and Clock Maker's Handbook=, Dictionary and Guide. By F. J. BRITTEN. Tenth edition, 450 illus. 492 pp. crown 8vo. (1902) *net* 5 0

=The Springing and Adjusting of Watches.= By F. J. BRITTEN. 75 illus. 152 pp. crown 8vo. (1898) *net* 3 0

=Prize Essay on the Balance Spring= and its Isochronal Adjustments. By M. IMMISCH. 7 illus. 50 pp. crown 8vo. (1872) 2 6

Chapter 71

HYDRAULICS AND HYDRAULIC MACHINERY.

(*See also* IRRIGATION *and* WATER SUPPLY.)

=The Suction Caused by Ships= explained in popular language. By E. S. BELLASIS. 2 plates, 26 pp.

8vo, sewed. (1912) *net* 1 0

=Hydraulics with Working Tables.= By E. S.

BELLASIS. Second edition, 160 illus. xii + 311 pp.

8vo. (1911) *net* 12 0

=Pumps=: Historically, Theoretically and Practically Considered. By P. R. BJOERLING. Second edition,

156 illus. 234 pp. crown 8vo. (1895) 7 6

=Pump Details.= By P. R. BJOERLING. 278 illus.

211 pp. crown 8vo. (1892) 7 6

=Pumps and Pump Motors=: A Manual for the use of Hydraulic Engineers. By P. R. BJOERLING.

Two vols. 261 plates, 369 pp. royal 4to. (1895) *net* 1 10 0
 =Practical Handbook on Pump Construction.=
 By P. R. BJOERLING. Second edition, 9 plates,
 90 pp. crown 8vo. (1904) 5 0
 =Water or Hydraulic Motors.= By P. R. BJOERLING.
 206 illus. 287 pp. crown 8vo. (1903) 9 0
 =Hydraulic Machinery=, with an Introduction to
 Hydraulics. By R. G. BLAINE. Second edition,
 with 307 illus. 468 pp. 8vo. (FINSBURY TECHNICAL
 MANUAL.) (1905) *net* 14 0
 =Practical Hydraulics.= By T. BOX. Fifteenth
 edition, 8 plates, 88 pp. crown 8vo. (1909) *net* 5 0
 =Pumping and Water Power.= By F. A. BRADLEY.
 51 illus., vii + 118 pp. demy 8vo. (1912) *net* 4 6
 =Hydraulic, Steam, and Hand Power Lifting and
 Pressing Machinery.= By F. COLYER. Second
 edition, 88 plates, 211 pp. imperial 8vo. (1892) *net* 10 6
 =Pumps and Pumping Machinery.= By F. COLYER.
 Vol. I. Second edition, 53 plates, 212 pp. 8vo
 (1892) *net* 10 6
 Vol. II. Second edition, 48 plates, 169 pp. 8vo.
 (1900) *net* 10 6
 =Construction of Horizontal and Vertical Waterwheels.=
 By W. CULLEN. Second edition, small
 4to. (1871) 5 0
 =Donaldson's Poncelet Turbine= and Water Pressure
 Engine and Pump. By W. DONALDSON.
 2 plates, viii + 32 pp. demy 4to. (1883) 5 0

=Principles of Construction and Efficiency of
 Waterwheels.= By W. DONALDSON. 13 illus.
 94 pp. 8vo. (1876) 5 0

=Practical Hydrostatics and Hydrostatic Formulae.=
 By E. S. GOULD. 27 illus. 114 pp. 18mo, boards.
 (New York, 1903) net 2 0

=Hydraulic and other Tables= for purposes of
 Sewerage and Water Supply. By T. HENNELL.
 Third edition, 70 pp. crown 8vo. (1908) net 4 6

=Tables for Calculating the Discharge of Water=
 in Pipes for Water and Power Supplies. Indexed
 at side for ready reference. By A. E. SILK.
 63 pp. crown 8vo. (1899) 5 0

=Simple Hydraulic Formulae.= By T. W. STONE.
 9 plates, 98 pp. crown 8vo. (1881) 4 0

=A B C of Hydrodynamics.= By LT.-COL. R. DE
 VILLAMIL, R.E. (retd.). 48 illus. xi + 135 pp.
 demy 8vo. (1912) net 6 0

Chapter 72

INDUSTRIAL CHEMISTRY AND MANUFACTURES.

=Perfumes and their Preparation.= By G. W.

ASKINSON. Translated from the Third German

Edition by I. FUEST. Third edition, 32 illus.

312 pp. 8vo. (*New York, 1907*) *net* 12 6

=Brewing Calculations=, Gauging and Tabulation.

By C. H. BATER. 340 pp. 64mo, roan, gilt edges.

(*1897*) *net* 1 6

=A Pocket Book for Chemists=, Chemical Manufacturers,
Metallurgists, Dyers, Distillers, *etc.*

By T. BAYLEY. Seventh edition, new impression,

550 pp. royal 32mo, roan, gilt edges. (*1912*) *net* 5 0

=Practical Receipts= for the Manufacturer, the
Mechanic, and for Home use. By Dr. H. R.

BERKELEY and W. M. WALKER. New impression,

250 pp. demy 8vo. (1912) *net* 5 0

=A Treatise on the Manufacture of Soap and
Candles=, Lubricants and Glycerine. By W. L.
CARPENTER and H. LEASK. Second edition,

104 illus. 456 pp. crown 8vo. (1895) 12 6

=A Text Book of Paper Making.= By C. F. CROSS
and E. J. BEVAN. Third edition, 97 illus. 411 pp.
crown 8vo. (1907) *net* 12 6

=C.B.S. Standard Units and Standard Paper
Tests.= By C. F. CROSS, E. J. BEVAN, C. BEADLE
and R. W. SINDALL. 25 pp. crown 4to. (1903) *net* 2 6

=Pyrometry.= By C. R. DARLING. 60 illus. 200 pp.
crown 8vo. (1911) *net* 5 0

=Soda Fountain Requisites.= A Practical Receipt
Book for Druggists, Chemists, *etc.* By G. H.
DUBELLE. Third edition, 157 pp. crown 8vo.
(*New York, 1905*) *net* 4 6

=Spices and How to Know Them.= By W. M.
GIBBS. 47 plates, including 14 in colours, 176
pp. 8vo. (*New York, 1909*) *net* 15 0

=The Chemistry of Fire= and Fire Prevention. By
H. and H. INGLE. 45 illus. 290 pp. crown 8vo.
(1900) 9 0

=Ice-Making Machines.= By M. LEDOUX and others.
Sixth edition, 190 pp. 18mo, boards. (*New*
York, 1906) *net* 2 0

=Brewing with Raw Grain.= By T. W. LOVIBOND.
75 pp. crown 8vo. (1883) 5 0

=The Chemistry, Properties, and Tests of
Precious Stones.= By J. Mastin. 114 pp.
fcap. 16mo, limp leather, gilt top. (1911) *net* 2 6

=Sugar, a Handbook for Planters and Refiners.=
By the late J. A. R. NEWLANDS and B. E. R.
NEWLANDS. 236 illus. 876 pp. 8vo. (1909) *net* 1 5 0

=Principles of Leather Manufacture.= By Prof.
H. R. PROCTER. 101 illus. 520 pp. medium 8vo.
(1908) *net* 18 0

=Leather Industries Laboratory Handbook= of
Analytical and Experimental methods. By H. R.
PROCTER. Second edition, 4 plates, 46 illus.
450 pp. demy 8vo. (1908) *net* 18 0

=Leather Chemists' Pocket Book.= A short compendium
of Analytical Methods. By Prof. H. R.
PROCTER. Assisted by Dr. E. STIASNY and H.
BRUMWELL. (*In the Press.*)

=Theoretical and Practical Ammonia Refrigeration.=
By I. I. REDWOOD. Sixth thousand,
15 illus. 146 pp. square 16mo. (*New York, 1909*) *net* 4 6

=Breweries and Maltings.= By G. SCAMMELL and
F. COLYER. Second edition, 20 plates, 178 pp.
8vo. (1880) *net* 6 0

=Factory Glazes for Ceramic Engineers.= By
H. RUM-BELLOW. Folio. Series A, Leadless
Sanitary Glazes. (1908) *net* 2 2 0

=Spens' Encyclopaedia of the Industrial Arts=,
Manufactures and Commercial Products.

1500 illus. 2100 pp. super-royal 8vo. (1882)

In 2 Vols, cloth *net* 2 2 0

=The Absorption Refrigerating Machine.= By

G. T. VOORHEES. 42 illus. 144 pp. narrow crown

8vo. (*New York, 1911*) *net* 8 6

=Tables for the Quantitative Estimation of the

Sugars.= By E. WEIN and W. FREW. Crown 8vo.

(1896) 6 0

=The Puering, Bating and Drenching of Skins.=

By J. T. WOOD. 33 illus. xv + 300 pp. demy

8vo. (1912) *net* 12 6

=Workshop Receipts.= For the use of Manufacturers,

Mechanics and Scientific Amateurs.

NEW AND THOROUGHLY REVISED EDITION, crown

8vo. (1909) *each net* 3 0

Vol. I. ACETYLENE LIGHTING *to* DRYING.

223 illus. 532 pp.

Vol. II. DYEING *to* JAPANNING. 259 illus.

540 pp.

Vol. III. JOINTING PIPES *to* PUMPS. 256

illus. 528 pp.

Vol. IV. RAINWATER SEPARATORS *to* WIRE

ROPE, SPLICING. 321 illus.

540 pp.

=Practical Handbook on the Distillation of Alcohol

from Farm Products.= By F. B. WRIGHT.

Second edition, 60 illus. 271 pp. crown 8vo. (*New*

York, 1907) *net* 4 6

=The Manufacture of Chocolate= and other Cacao
Preparations. By P. ZIPPERER. Second edition,
87 illus. 280 pp. royal 8vo. (1902) *net* 16 0

Chapter 73

INTEREST TABLES.

=The Wide Range Dividend and Interest Calculator=,
showing at a glance the Percentage on
any sum from One Pound to Ten Thousand
Pounds, at any Interest, from 1%
by $1\frac{1}{4}\%$

royal 8vo, cloth *net* 6 0

Quarter morocco, cloth sides *net* 7 6

=The Wide Range Income Tax Calculator=,
showing at a glance the Tax on any sum from
One Shilling to Thousand Pounds, at the Rate
of 9_d._, 1/- and $1\frac{1}{2}$ in the Pound. By A.
STEVENS. On folding card, imperial 8vo *net* 1 0

Chapter 74

IRRIGATION.

=Punjab Rivers and Works.= By E. S. BELLASIS.

47 illus. 65 pp. folio, cloth. (1911) *net* 8 0

=Irrigation Pocket Book.= By R. B. BUCKLEY.

419 pp. crown 8vo, leather cloth with rounded corners. (1911) *net* 12 6

=The Design of Channels for Irrigation and Drainage.= By R. B. BUCKLEY. 22 diagrams, 56 pp. crown 8vo. (1911) *net* 2 0

=The Irrigation Works of India.= By R. B. BUCKLEY. Second edition, with coloured maps and plans. 336 pp. 4to, cloth. (1905) *net* 2 2 0

=Irrigated India.= By Hon. ALFRED DEAKIN. With Map, 322 pp. 8vo. (1893) 8 6

=Indian Storage Reservoirs=, with Earthen Dams. By W. L. STRANGE. *Second edition in preparation*

=The Irrigation of Mesopotamia.= By Sir W. WILLCOCKS. 2 vols. 46 plates, 136 pp. (Text

super-royal 8vo, plates folio). (1911) *net* 1 0 0

=Egyptian Irrigation.= By Sir W. WILLCOCKS.

Third edition in preparation.

A few copies of the First Edition (1889) are still to

be had. Price 15_s. net._

=The Nile Reservoir Dam at Assuan=, and After.

By Sir W. WILLCOCKS. Second edition, 13 plates,

super-royal 8vo. (1903) *net* 6 0

=The Assuan Reservoir and Lake Moeris.= By

Sir W. WILLCOCKS. With text in English,

French and Arabic. 5 plates, 116 pp. super-royal

8vo. (1904) *net* 5 0

=The Nile in 1904.= By Sir W. WILLCOCKS.

30 plates, 200 pp. super-royal 8vo. (1904) *net* 9 0

Chapter 75

LOGARITHM TABLES.

=Aldum's Pocket Folding Mathematical Tables.=

Four-figure logarithms, and Anti-logarithms,

Natural Sines, Tangents, Cotangents, Cosines,

Chords and Radians for all angles from 1 to 90

degrees. And Decimaliser Table for Weights

and Money. On folding card. *Net* 4_d._ 20 copies,

net 6_s._

=Tables of Seven-figure Logarithms= of the Natural

Numbers from 1 to 108,000. By C. BABBAGE.

Stereotype edition, 8vo *net* 5 0

=Four-Place Tables of Logarithms and Trigonometric

Functions.= By E. V. HUNTINGTON.

Ninth thousand, 34 pp. square 8vo, limp buckram,

with cut lateral index. (*New York, 1911*) *net* 3 0

=Short Logarithmic= and other Tables. By W. C.

UNWIN. Fourth edition, small 4to 3 0

=Logarithmic Land Measurement.= By J. WALLACE.

32 pp. royal 8vo. (1910) *net* 5 0

=A B C Five-figure Logarithms with Tables,

for Chemists.= By C. J. WOODWARD. Crown

8vo *net* 2 6

=A B C Five-figure Logarithms= for general use,

with lateral index for ready reference. By C. J.

WOODWARD. Second edition, with cut lateral

Index, 116 pp. 12mo, limp leather *net* 3 0

Chapter 76

MARINE ENGINEERING AND NAVAL ARCHITECTURE.

=Marine Propellers.= By S. W. BARNABY. Fifth
edition, 5 plates, 56 illus. 185 pp. demy 8vo.

(1908) *net* 10 6

=Marine Engineer's Record Book=: Engines.

By B. C. BARTLEY. 8vo, roan *net* 5 0

=The Suction Caused by Ships and the Olympic-Hawke
Collision.= By E. S. BELLASIS. 1 chart

and 5 illus. in text, 26 pp. 8vo, sewed. (1912) *net* 1 0

=Yachting Hints=, Tables and Memoranda. By A. C.

FRANKLIN. Waistcoat pocket size, 103 pp. 64mo,

roan, gilt edges *net* 1 0

=Steamship Coefficients, Speeds and Powers.=

By C. F. A. FYFE. 31 plates, 280 pp. fcap. 8vo,
 leather. (1907) *net* 10 6

=Steamships and Their Machinery=, from first to
 last. By J. W. C. HALDANE. 120 illus. 532 pp.
 8vo. (1893) 15 0

=Tables for Constructing Ships' Lines.= By
 A. HOGG. Third edition, 3 plates, 20 pp. 8vo,
 sewed (1911) *net* 3 0

=Submarine Boats.= By G. W. HOVGGAARD. 2 plates,
 98 pp. crown 8vo. (1887) 5 0

=Tabulated Weights= of Angle, Tee, Bulb, Round,
 Square, and Flat Iron and Steel for the use of
 Naval Architects, Ship-builders, *etc.* By C. H.
 JORDAN. Sixth edition, 640 pp. royal 32mo,
 French morocco, gilt edges. (1909) *net* 7 6

=Particulars of Dry Docks=, Wet Docks, Wharves,
etc. on the River Thames. Compiled by C. H.
 JORDAN. Second edition, 7 coloured charts, 103
 pp. oblong 8vo. (1904) *net* 2 6

=Marine Transport of Petroleum.= By H. LITTLE.
 66 illus. 263 pp. crown 8vo. (1890) 10 6

=Questions and Answers for Marine Engineers=,
 with a Practical Treatise on Breakdowns at Sea.
 By T. LUCAS. 12 folding plates, 515 pp. gilt
 edges, crown 8vo. (*New York*, 1902) *net* 8 0

=Reed's Engineers' Handbook to the Board of
 Trade Examinations= for certificates of Competency
 as First and Second Class Engineers.

Nineteenth edition, 37 plates, 358 illus. 696 pp.

8vo *net* 14 0

=Key to Reed's Handbook= *net* 7 6

=Reed's Marine Boilers.= Second edition, crown 8vo *net* 4 6

=Reed's Useful Hints to Sea-going Engineers.=

Fourth edition, 8 plates, 50 illus. 312 pp. crown

8vo. (*1903*) *net* 3 6

Chapter 77

MATERIALS.

=Practical Treatise on the Strength of Materials.=

By T. BOX. Fourth edition, 27 plates, 536 pp.

8vo. (1902) *net* 12 6

=Treatise on the Origin, Progress, Prevention
and Cure of Dry Rot in Timber.= By T. A.

BRITTON. 10 plates, 519 pp. crown 8vo. (1875) 7 6

=Solid Bitumens.= By S. F. PECKHAM. 23 illus.

324 pp. 8vo. (*New York, 1909*) *net* 1 1 0

=Lubricants, Oils and Greases.= By I. I. REDWOOD.

3 plates, ix + 54 pp. 8vo. (1898) *net* 6 6

=Practical Treatise on Mineral Oils= and their

By-Products. By I. I. REDWOOD. 67 illus. 336 pp.

dem. 8vo. (1897) 15 0

=Silico-Calcareous Sandstones=, or Building Stones
from Quartz, Sand and Lime. By E. STOFFLER.

5 plates, 8vo, sewed. (1901) *net* 4 0

=Proceedings of the Fifth Congress, International

Association for Testing Materials.=

English edition. 189 illus. 549 pp. demy 8vo.

(1910).

Paper *net* 15 0

Cloth *net* 18 0

Chapter 78

MATHEMATICS.

=Imaginary Quantities.= By M. ARGAND. Translated
by PROF. HARDY. 18mo, boards. (*New York*) *net* 2 0

=Text Book of Practical Solid Geometry.= By
E. H. DE V. ATKINSON. Revised by MAJOR B. R.
WARD, R.E. Second edition, 17 plates, 8vo.

(*1901*) 7 6

=Quick and Easy Methods of Calculating=, and
the Theory and Use of the Slide Rule. By

R. G. BLAINE. Fourth edition, 6 illus. xii +
152 pp. 16mo, leather cloth. (*1912*) *net* 2 6

=Symbolic Algebra=, or the Algebra of Algebraic
Numbers. By W. CAIN. 18mo, boards. (*New*
York) *net* 2 0

=Nautical Astronomy.= By J. H. COLVIN. 127 pp.
crown 8vo. (*1901*) *net* 2 6

=Chemical Problems.= By J. C. FOYE. Fourth edition,
141 pp. 18mo, boards. (*New York, 1898*) *net* 2 0

=Primer of the Calculus.= By E. S. GOULD. Second edition, 24 illus. 122 pp. 18mo, boards. (*New York, 1899*) *net* 2 0

=Elementary Treatise on the Calculus= for Engineering Students. By J. GRAHAM. Third edition, 276 pp. crown 8vo. (FINSBURY TECHNICAL MANUAL.) (*1905*) 7 6

=Manual of the Slide Rule.= By F. A. HALSEY. Second edition, 31 illus. 84 pp. 18mo, boards. (*New York, 1901*) *net* 2 0

=Reform in Chemical and Physical Calculations.= By C. J. T. HANSSEN. 4to. (*1897*) *net* 6 6

=Algebra Self-Taught.= By P. HIGGS. Third edition, 104 pp. crown 8vo. (*1903*) 2 6

=A Text-book on Graphic Statics.= By C. W. MALCOLM. 155 illus. 316 pp. 8vo. (*New York, 1909*) *net* 12 6

=Galvanic Circuit investigated Mathematically.= By G. S. OHM. Translated by WILLIAM FRANCIS. 269 pp. 18mo, boards. (*New York, 1891*) *net* 2 0

=Elementary Practical Mathematics.= By M. T. ORMSBY. Second edition, 128 illus. xii + 410 pp. medium 8vo. (*1911*) *net* 5 0

=Elements of Graphic Statics.= By K. VON OTT. Translated by G. S. CLARKE. 93 illus. 128 pp. crown 8vo. (*1901*) 5 0

=Figure of the Earth.= By F. C. ROBERTS. 18mo, boards. (*New York*) *net* 2 0

=Arithmetic of Electricity.= By T. O'C. SLOANE.

Thirteenth edition, 5 illus. 162 pp. crown 8vo.

(*New York, 1901*) *net* 4 6

=Graphic Method for Solving certain Questions

in Arithmetic or Algebra.= By G. L. VOSE.

Second edition with 28 illus. 62 pp. 18mo, boards.

(*New York, 1902*) *net* 2 0

=Problems in Electricity.= A Graduated Collection

comprising all branches of Electrical Science.

By R. WEBER. Translated from the French by

E. A. O'KEEFE. 34 illus. 366 pp. crown 8vo.

(*1902*) *net* 7 6

Chapter 79

MECHANICAL ENGINEERING.

STEAM ENGINES AND BOILERS, ETC.

=Engineers' Sketch Book of Mechanical Movements.=

By T. W. BARBER. Fifth edition, 3000

illus. 355 pp. 8vo. (1906) *net* 10 6

=The Repair and Maintenance of Machinery.= By

T. W. BARBER. 417 illus. 476 pp. 8vo. (1895) 10 6

=Practical Treatise on Mill Gearing.= By T. BOX.

Fifth edition, 11 plates, 128 pp. crown 8vo.

(1892) 7 6

=The Mechanical Engineers' Price Book, 1912.=

Edited by G. BROOKS. 176 pp. pocket size (6-1/2 in.

by 3-3/4 in. by 1/2 in. thick), leather cloth, with

rounded corners. (1912) *net* 4 0

=Safety Valves.= By R. H. BUELL. Third edition,

20 illus. 100 pp. 18mo, boards.

(New York, 1898) *net* 2 0

=Machine Design.= By Prof. W. L. CATHCART.
 Part I. FASTENINGS. 123 illus. 291 pp.
 demy 8vo. (*New York, 1903*) *net* 12 6

=Chimney Design and Theory.= By W. W. CHRISTIE. Second edition, 54 illus. 192 pp.
 crown 8vo. (*New York, 1902*) *net* 12 6

=Furnace Draft=: its Production by Mechanical Methods. By W. W. CHRISTIE. 5 illus. 80 pp.
 18mo, boards. (*New York, 1906*) *net* 2 0

=The Stokers' Catechism.= By W. J. CONNOR.
 63 pp. limp cloth. (*1906*) *net* 1 0

=Treatise on the use of Belting= for the Transmission of Power. By J. H. COOPER. Fifth edition, 94 illus.
 399 pp. demy 8vo. (*New York, 1901*) *net* 12 6

=The Steam Engine considered as a Thermodynamic Machine.= By J. H. COTTERILL. Third edition, 39 diagrams, 444 pp. 8vo. (*1896*) 15 0

=Fireman's Guide=, a Handbook on the Care of Boilers. By K. P. DAHLSTROM. Eleventh edition, fcap. 8vo, limp. (S. & C. SERIES, No. 16.) (*New York, 1906*) *net* 1 6

=Heat for Engineers.= By C. R. DARLING. Second edition, 110 illus. 430 pp. 8vo. (FINSBURY TECHNICAL MANUAL.) (*1912*) *net* 12 6

=Diseases of a Gasolene Automobile=, and How to Cure Them. By A. L. DYKE. 127 illus. 201 pp.
 crown 8vo. (*New York, 1903*) *net* 6 6

=Belt Driving.= By G. HALLIDAY. 3 folding plates,

100 pp. 8vo. (1894) 3 6

=Worm and Spiral Gearing.= By F. A. HALSEY.

13 plates, 85 pp. 18mo, boards.

(*New York, 1903*) *net* 2 0

=Commercial Efficiency of Steam Boilers.= By

A. HANSSEN. Large 8vo, sewed. (1898) 0 6

=Corliss Engine.= By J. T. HENTHORN. Third

edition, 23 illus. 95 pp. square 16mo. (S. & C.

SERIES, No. 23.) (*New York, 1910*) *net* 1 6

=Liquid Fuel= for Mechanical and Industrial Purposes.

By E. A. BRAYLEY HODGETTS. 106 illus. 129 pp.

8vo. (1890) 5 0

=Elementary Text-Book on Steam Engines and

Boilers.= By J. H. KINEALY. Fourth edition,

106 illus. 259 pp. 8vo. (*New York, 1903*) *net* 8 6

=Centrifugal Fans.= By J. H. KINEALY. 33 illus.

206 pp. fcap. 8vo, leather. (*New York, 1905*) *net* 12 6

=Mechanical Draft.= By J. H. KINEALY. 27 original

tables and 13 plates, 142 pp. crown 8vo. (*New*

York, 1906) *net* 8 6

=The A B C of the Steam Engine=, with a description
of the Automatic Governor. By J. P. LISK.

6 plates, crown 8vo. (S. & C. SERIES, No. 17.)

(*New York, 1910*) *net* 1 6

=Valve Setting Record Book.= By P. A. LOW. 8vo,
boards 1 6

=The Lay-out of Corliss Valve Gears.= By S. A.

MOSS. Second edition, 3 plates, 108 pp. 18mo,

boards. (*New York, 1906*) *net* 2 0

=Steam Boilers=, their Management and Working.

By J. PEATTIE. Fifth edition, 35 illus. 230 pp.

crown 8vo. (*1906*) *net* 4 6

=Treatise on the Richards Steam Engine Indicator.=

By C. T. PORTER. Sixth edition, 3 plates

and 73 diagrams, 285 pp. 8vo. (*1902*) 9 0

=Practical Treatise on the Steam Engine.= By

A. RIGG. Second edition, 103 plates, 378 pp.

demy 4to. (*1894*) 15 0

=Power and its Transmission.= A Practical Handbook
for the Factory and Works Manager. By

T. A. SMITH. 76 pp. fcap. 8vo. (*1910*) *net* 2 0

=Drawings for Medium Sized Repetition Work.=

By R. D. SPINNEY. With 47 illus. 130 pp. 8vo.

(*1909*) *net* 3 6

=Slide Valve Simply Explained.= By W. J. TENNANT.

Revised by J. H. KINEALY. 41 illus.

83 pp. crown 8vo. (*New York, 1899*) *net* 4 6

=Shaft Governors.= By W. TRINKS and C. HOOSUM.

27 illus. 97 pp. 18mo, boards.

(*New York, 1905*) *net* 2 0

=Treatise on the Design and Construction of

Mill Buildings.= By H. G. TYRRELL. 652 illus.

490 pp. 8vo. (*New York, 1911*) *net* 17 0

=Slide and Piston Valve Geared Steam Engines.=

By W. H. UHLAND. 47 plates and 314 illus. 155 pp.

Two vols. folio, half morocco. (*1882*) 1 16 0

=How to run Engines and Boilers.= By E. P.

WATSON. Fifth edition, 31 illus. 160 pp. crown

8vo. (*New York, 1904*) 3 6

=Position Diagram of Cylinder with Meyer Cut-off.=

By W. H. WEIGHTMAN. On card. (*New*

York) *net* 1 0

=Practical Method of Designing Slide Valve

Gearing.= By E. J. WELCH. 69 diagrams, 283 pp.

crown 8vo. (*1890*) 6 0

=Elements of Mechanics.= By T. W. WRIGHT.

Eighth edition, illustrated, 382 pp. 8vo. (*New*

York, 1909) *net* 10 6

Chapter 80

METALLURGY.

IRON AND STEEL MANUFACTURE.

=Life of Railway Axles.= By T. ANDREWS. 8vo, sewed. (1895) 1 0

=Microscopic Internal Flaws in Steel Rails and Propeller Shafts.= By T. ANDREWS. 8vo, sewed. (1896) 1 0

=Microscopic Internal Flaws, Inducing Fracture in Steel.= By T. ANDREWS. 8vo, sewed. (1896) 2 0

=Practical Alloying.= A compendium of Alloys and Processes for Brassfounders, Metal Workers, and Engineers. By JOHN F. BUCHANAN. With 41 illus. 205 pp. 8vo, cloth. (*New York, 1911*) net 10 6

=Brassfounders' Alloys.= By J. F. BUCHANAN. Illustrated, 129 pp. crown 8vo. (1905) net 4 6

=The Moulder's Dictionary= (Foundry Nomenclature). A concise guide to Foundry Practice.

By JOHN F. BUCHANAN. New impression, 26

illus. viii + 225 pp. crown 8vo. (1912) *net* 3 0
 =American Standard Specifications for Steel.= By
 A. L. COLBY. Second edition, revised, 103 pp.
 crown 8vo. (New York, 1902) *net* 5 0
 =Pyrometry.= By C. R. DARLING. 60 illus. 200 pp.
 crown 8vo. (1911) *net* 5 0
 =Galvanised Iron=: its Manufacture and Uses. By
 J. DAVIES. 139 pp. 8vo. (1899) *net* 5 0
 =Management of Steel.= By G. EDE. Seventh
 edition, 216 pp. crown 8vo. (1903) 5 0
 =The Frodair Handbook for Ironfounders.= 160
 pp. 12mo. (1910) *net* 2 0
 =Cupola Furnace.= A practical treatise on the
 Construction and Management of Foundry
 Cupolas. By E. KIRK. Third edition, 106 illus.
 484 pp. demy 8vo. (New York, 1910) *net* 15 0
 =Practical Notes on Pipe Founding.= By J. W.
 MACFARLANE. 15 plates, 148 pp. 8vo. (1888) 12 6
 =Atlas of Designs concerning Blast Furnace
 Practice.= By M. A. PAVLOFF. 127 plates, 14 in.
 by 10-1/2 in. oblong, sewed. (1902) *net* 1 1 0
 =Album of Drawings relating to the Manufacture
 of Open Hearth Steel.= By M. A. PAVLOFF.
 Part I. Open Hearth Furnaces. 52
 plates, 14 in. by 10-1/2 in. oblong folio, in
 portfolio. (1904) *net* 12 0
 =Metallography Applied to Siderurgic Products.=
 By H. SAVOIA. Translated by R. G. CORBET.

94 illus. 180 pp. crown 8vo. (1910) *net* 4 6

=Modern Foundry Practice.= Including revised
subject matter and tables from SPRETSON'S

"Casting and Founding." By J. SHARP. Second
edition, New impression, 272 illus. 759 pp. 8vo.

(1911) *net* 1 1 0

=Roll Turning for Sections in Steel and Iron.=

By A. SPENCER. Second edition, 78 plates, 4to.

(1894) 1 10 0

Chapter 81

METRIC TABLES.

=French Measure and English Equivalents.= By
J. BROOK. Second edition, 80 pp. fcap. 32mo,
roan. (1906) *net* 1 0

=A Dictionary of Metric and other useful Measures.=
By L. CLARK. 113 pp. 8vo. (1891) 6 0

=English Weights, with their Equivalents in
kilogrammes.= By F. W. A. LOGAN. 96 pp.
fcap. 32mo, roan. (1906) *net* 1 0

=Metric Weights with English Equivalents.= By
H. P. MCCARTNEY. 84 pp. fcap. 32mo, roan.
(1907) *net* 1 0

=Metric Tables.= By Sir G. L. MOLESWORTH. Fourth
edition, 95 pp. royal 32mo. (1909) *net* 2 0

=Tables for Setting out Curves= from 200 metres
to 4000 metres by tangential angles. By H.
WILLIAMSON. 4 illus. 60 pp. 18mo. (1908) *net* 2 0

Chapter 82

MINERALOGY AND MINING.

=Rock Blasting.= By G. G. ANDRE. 12 plates and 56 illus. in text, 202 pp. 8vo. (1878) 5 0

=Winding Plants for Great Depths.= By H. C. BEHR. In two parts. 8vo, sewed. (1902) *net* 2 2 0

=Practical Treatise on Hydraulic Mining in California.= By A. J. BOWIE, Jun. Tenth edition, 73 illus. 313 pp. royal 8vo. (*New York, 1905*) *net* 1 1 0

=Tables for the Determination of Common Rocks.= By O. BOWLES. 64 pp. 18mo, boards. (VAN NOSTRAND SERIES, No. 125.) (*New York, 1910*) *net* 2 0

=Manual of Assaying Gold, Silver, Copper and Lead Ores.= By W. L. BROWN. Twelfth edition, 132 illus. 589 pp. crown 8vo. (*New York, 1907*) *net* 10 6

=Fire Assaying.= By E. W. BUSKETT. 69 illus.

105 pp. crown 8vo. (*New York, 1907*) *net* 4 6

=Tin=: Describing the Chief Methods of Mining, Dressing,
etc. By A. G. CHARLETON. 15 plates, 83 pp.

crown 8vo. (*1884*) 12 6

=Gold Mining and Milling= in Western Australia,
with Notes upon Telluride Treatment, Costs and
Mining Practice in other Fields. By A. G.

CHARLETON. 82 illus. and numerous plans and
tables, 648 pp. super-royal 8vo. (*1903*) *net* 1 5 0

=Miners' Geology and Prospectors' Guide.= By
G. A. CORDER. 29 plates, 224 pp. crown 8vo.
(*1907*) *net* 5 0

=Blasting of Rock in Mines, Quarries, Tunnels,
etc.= By A. W. and Z. W. DAW. Second edition,
90 illus. 316 pp. demy 8vo. (*1909*) *net* 15 0

=Handbook of Mineralogy=; determination and description
of Minerals found in the United States.

By J. C. FOYE. 180 pp. 18mo, boards. (*New
York, 1886*) *net* 2 0

=Our Coal Resources= at the End of the Nineteenth
Century. By Prof. E. HULL. 157 pp. demy 8vo.
(*1897*) 6 0

=Hydraulic Gold Miners' Manual.= By T. S. G.
KIRKPATRICK, Second edition, 12 illus. 46 pp.
crown 8vo. (*1897*) 4 0

=Economic Mining.= By C. G. W. LOCK. 175 illus.
680 pp. 8vo. (*1895*) *net* 10 6

=Gold Milling=: Principles and Practice. By C. G. W.

LOCK. 200 illus. 850 pp. demy 8vo. (1901) *net* 1 1 0

=Mining and Ore-Dressing Machinery.= By

C. G. W. LOCK. 639 illus. 466 pp. super-royal 4to.

(1890) *net* 1 5 0

=Miners' Pocket Book.= By C. G. W. LOCK. Fifth

edition, 233 illus. 624 pp. fcap. 8vo, leather, gilt

edges. (1908) *net* 10 6

=Chemistry, Properties and Tests of Precious

Stones.= By J. MASTIN. 114 pp. fcap. 16mo, limp

leather, gilt top. (1911) *net* 2 6

=Tests for Ores, Minerals and Metals of Commercial

Value.= By R. L. MCMECHEN. 152 pp.

12mo. (New York, 1907) *net* 5 6

=Practical Handbook for the Working Miner

and Prospector=, and the Mining Investor. By

J. A. MILLER. 34 illus. 234 pp. crown 8vo.

(1897) *net* 7 6

=Theory and Practice of Centrifugal Ventilating

Machines.= By D. MURGUE. 7 illus. 81 pp. 8vo.

(1883) *net* 5 0

=Examples of Coal Mining Plant.= By J. POVEY-HARPER.

Second edition, 40 plates, 26 in. by

20 in. (1895) *net* 4 4 0

=Examples of Coal Mining Plant, Second Series.=

By J. POVEY-HARPER. 10 plates, 26 in. by 20 in.

(1902) *net* 1 12 6

Chapter 83

MODELS AND MODEL MAKING.

=How to Build a Model Yacht.= By H. FISHER.

Numerous illustrations, 50 pp. 4to. (*New York, 1902*) *net* 4 6

=Model Engines and Small Boats.= By N. M.

HOPKINS. 50 illus. viii + 74 pp. crown 8vo.
(*New York, 1898*) *net* 5 9

=The Gyroscope, an Experimental Study.= By

V. E. JOHNSON. 34 illus. 40 pp. crown 8vo, limp.
(S. & C. SERIES, No. 22.) (*1911*) *net* 1 6

=The Model Vaudeville Theatre.= By N. H.

SCHNEIDER. 34 illus. 90 pp. crown 8vo, limp.
(S. & C. SERIES, No. 15.) (*New York, 1910*) 1 6

=Electric Toy-Making.= By T. O. SLOANE. Fifteenth
edition, 70 illus. 183 pp. crown 8vo. (*New
York, 1903*) *net* 4 6

=Model Steam Engine Design.= By R. M. DE

VIGNIER. 34 illus. 94 pp. crown 8vo, limp. (S. & C.
SERIES, No. 9.) (*New York, 1907*) *net* 1 6
=Small Engines and Boilers.= By E. P. WATSON.
33 illus. viii + 108 pp. crown 8vo. (*New York,*
1899) *net* 5 6

Chapter 84

ORGANISATION.

ACCOUNTS, CONTRACTS AND MANAGEMENT.

=Organisation of Gold Mining Business=, with
Specimens of the Departmental Report Books
and the Account Books. By NICOL BROWN.

Second edition, 220 pp. fcap. folio. (1903) *net* 1 5 0

=Cost Keeping and Management Engineering.=

A Treatise for those engaged in Engineering Construction.

By H. P. GILLETTE and R. T. DANA.

184 illus. 346 pp. 8vo. (*New York, 1909*) *net* 15 0

=Manual of Engineering Specifications= and Contracts.

By L. M. HAUPT. Eighth edition, 338 pp.

8vo. (*New York, 1900*) *net* 12 6

=Handbook on Railway Stores Management.=

By W. O. KEMPTHORNE. 268 pp. demy 8vo.

(1907) *net* 10 6

=Depreciation of Factories=, Municipal, and Industrial
Undertakings, and their Valuation. By

E. MATHESON. Fourth edition, 230 pp. 8vo.

(1910) *net* 10 6

=Aid Book to Engineering Enterprise.= By E.

MATHESON. Third edition, 916 pp. 8vo, buckram.

(1898) 1 4 0

=Office Management.= A handbook for Architects
and Civil Engineers. By W. KAYE PARRY.

New impression, 187 pp. medium 8vo. (1908) *net* 5 0

=Commercial Organisation of Engineering Factories.=

By H. SPENCER. 92 illus. 221 pp. 8vo.

(1907) *net* 10 6

Chapter 85

PHYSICS.

COLOUR, HEAT AND EXPERIMENTAL SCIENCE.

=The Entropy Diagram= and its Applications. By
M. J. BOULVIN. 38 illus. 82 pp. demy 8vo. (1898) 5 0

=Physical Problems and their Solution.= By A.

BOURGOUGNON. 224 pp. 18mo, boards. (*New
York, 1897*) *net* 2 0

=Heat for Engineers.= By C. R. DARLING. Second
edition, 110 illus. 430 pp. 8vo. (FINSBURY TECHNICAL
MANUAL.) (1912) *net* 12 6

=The Colourist.= A method of determining colour
harmony. By J. A. H. HATT. 2 coloured plates,
80 pp. 8vo. (*New York, 1908*) *net* 6 6

=Engineering Thermodynamics.= By C. F. HIRSCHFELD.
22 illus. 157 pp. 18mo, boards. (*New York,
1907*) *net* 2 0

=Experimental Science=: Elementary, Practical and
Experimental Physics. By G. M. HOPKINS.

Twenty-third edition, 920 illus. 1100 pp. large 8vo.

(*New York, 1902*) *net* 1 1 0

=Reform in Chemical and Physical Calculations.=

By C. J. T. HANSSEN. Demy 4to. (*1897*) *net* 6 6

=Introduction to the Study of Colour Phenomena.=

By J. W. LOVIBOND. 10 hand coloured plates,

48 pp. 8vo. (*1905*) *net* 5 0

=Practical Laws and Data on the Condensation

of Steam in Bare Pipes=; to which is added a

Translation of PECLET'S Theory and Experiments

on the Transmission of Heat through Insulating

Materials. By C. P. PAULDING. 184

illus. 102 pp. demy 8vo. (*New York, 1904*) *net* 8 6

=The Energy Chart.= Practical application to

reciprocating steam-engines. By Captain H. R.

SANKEY. 157 illus. 170 pp. 8vo. (*1907*) *net* 7 6

Chapter 86

PRICE BOOKS.

=The Mechanical Engineers' Price Book, 1912.=

By G. BROOKS. 176 pp. pocket size (6-1/2 in. by 3-3/4 in. by 1/2 in. thick), leather cloth, with rounded corners. (*1912*) *net* 4 0

=Approximate Estimates.= By T. E. COLEMAN.

Third edition, 481 pp. oblong 32mo, leather.

(*1907*) *net* 5 0

=The Civil Engineers' Cost Book.= By MAJOR

T. E. COLEMAN. xii. + 289 pp. pocket size (6-1/2 in. by 3-3/4 in.), leather cloth. (*1912*) *net* 5 0

=Railway Stores Price Book.= By W. O. KEMPTHORNE.

500 pp. demy 8vo. (*1909*) *net* 10 6

=Handbook of Cost Data for Contractors and

Engineers.= By H. P. GILLETTE. 1854 pp.

cr. 8vo, leather, gilt edges. (*New York, 1910*) *net* 1 1 0

=Spons' Architects' and Builders' Pocket Price-Book

and Diary, 1912.= Edited by CLYDE

YOUNG. Revised by STANFORD M. BROOKS. Illustrated,
239 pp. green leather cloth. With Diary
showing a week at an opening. (Size 6-1/2 in. by
3-3/4 in. by 1/2 in. thick). Issued annually *net* 2 6

Chapter 87

RAILWAY ENGINEERING AND MANAGEMENT.

=Practical Hints to Young Engineers Employed
on Indian Railways.= By A. W. C. ADDIS.

14 illus. 154 pp. 12mo. (*1910*) net 3 6

=Field and Office Tables=, specially applicable to
Railroads. By C. F. ALLEN. 293 pp. 16mo,
leather. (*New York, 1903*) net 8 6

=Up-to-date Air Brake Catechism.= By R. H.
BLACKALL. Twenty-third edit. 5 coloured plates,
96 illus. 305 pp. crown 8vo. (*New York, 1908*) net 8 6

=Prevention of Railroad Accidents, or Safety in
Railroading.= By GEO. BRADSHAW. 64 illus.
173 pp. square crown 8vo. (*New York, 1912*) net 2 6

=Simple and Automatic Vacuum Brakes.= By C.
BRIGGS, G.N.R. 11 plates, 8vo. (*1892*) 4 0

=Notes on Permanent-way Material=, Plate-laying,
ad Points and Crossings. By W. H. COLE.

Sixth edition, revised, 44 illus. in 39 plates, 203
pp. crown 8vo. (1912) *net* 7 6

=Statistical Tables of the Working of Railways=
in various countries up to the year 1904. By
J. D. DIACOMIDIS. Second edition, 84 pp. small
folio, sewed. (1906) *net* 16 0

=Locomotive Breakdowns=, Emergencies and their
Remedies. By GEO. L. FOWLER, M.E., and W. W.
WOOD. Fifth edition, 92 illus. 266 pp. 12mo.
(*New York, 1911*) *net* 4 6

=Permanent-Way Diagrams.= By F. H. FRERE.
Mounted on linen in cloth covers. (1908) *net* 3 0

=Formulae for Railway Crossings and Switches.=
By J. GLOVER. 9 illus. 28 pp. royal 32mo. (1896) 2 6

=Setting out of Tube Railways.= By G. M. HALDEN.
9 plates, 46 illus. 68 pp. crown 4to. (1907) *net* 10 6

=Railway Engineering, Mechanical and Electrical.=
By J. W. C. HALDANE. New edition, 141 illus.
xx + 583 pp. 8vo. (1908) 15 0

=The Construction of the Modern Locomotive.=
By G. HUGHES. 300 illus. 261 pp. 8vo. (1894) 9 0

=Practical Hints for Light Railways= at Home and
Abroad. By F. R. JOHNSON. 6 plates, 31 pp.
crown 8vo. (1896) 2 6

=Handbook on Railway Stores Management.= By
W. O. KEMPTHORNE. 268 pp. demy 8vo. (1907) *net* 10 6

=Railway Stores Price Book.= By W. O. KEMPTHORNE.

487 pp. demy 8vo. (1909) *net* 10 6

=Railroad Location Surveys and Estimates.= By

F. LAVIS. 68 illus. 270 pp. 8vo. (*New York, 1906*) *net* 12 6

=Pioneering.= By F. SHELFORD. Illustrated, 88 pp.

crown 8vo. (1909) *net* 3 0

=Handbook on Railway Surveying= for Students

and Junior Engineers. By B. STEWART. 55

illus. 98 pp. crown 8vo. (1909) *net* 2 6

=Modern British Locomotives.= By A. T. TAYLOR.

100 diagrams of principal dimensions, 118 pp.

oblong 8vo. (1907) *net* 4 6

=Locomotive Slide Valve Setting.= By C. E. TULLY.

Illustrated, 18mo *net* 1 0

=The Railway Goods Station.= By F. W. WEST.

23 illus., xv + 192 pp. crown 8vo. (1912) *net* 4 6

=The Walschaert Locomotive Valve Gear.= By

W. W. WOOD. 4 plates and set of movable cardboard

working models of the valves, 193 pp.

crown 8vo. (*New York, 1907*) *net* 6 6

=The Westinghouse E.T. Air-Brake Instruction

Pocket Book.= By W. W. WOOD. 48 illus.

including many coloured plates, 242 pp. crown

8vo. (*New York, 1909*) *net* 8 6

SANITATION, PUBLIC HEALTH AND

Chapter 88

MUNICIPAL ENGINEERING.

=Sewers and Drains for Populous Districts.= By

J. W. ADAMS. Ninth edition, 81 illus. 236 pp.

8vo. (*New York, 1902*) *net* 10 6

=Engineering Work in Public Buildings.= By

R. O. ALLSOP. 77 illus. ix + 158 pp. demy 4to.

(*1912*) *net* 12 6

=Public Abattoirs=, their Planning, Design and Equipment.

By R. S. AYLING. 33 plates, 100 pp.

demy 4to. (*1908*) *net* 8 6

=Sewage Purification.= By E. BAILEY-DENTON. 8

plates, 44 pp. 8vo. (*1896*) 5 0

=Water Supply and Sewerage of Country Mansions=

and Estates. By E. BAILEY-DENTON.

76 pp. crown 8vo. (*1901*) *net* 2 6

=Sewerage and Sewage Purification.= By M. N.

BAKER. Second edition, 144 pp. 18mo, boards.

(*New York, 1905*) *net* 2 0

=Sewage Irrigation by Farmers.= By R. W. P.

BIRCH. 8vo, sewed. (*1878*) 2 6

=Sanitary House Drainage=, its Principles and

Practice. By T. E. COLEMAN. 98 illus. 206 pp.

crown 8vo. (*1896*) 6 0

=Stable Sanitation and Construction.= By T. E.

COLEMAN. 183 illus. 226 pp. crown 8vo. (*1897*) 6 0

=Public Institutions=, their Engineering, Sanitary and
other Appliances. By F. COLYER. 231 pp. 8vo.

(*1889*) *net* 2 0

=Discharge of Pipes and Culverts.= By P. M.

CROSTHWAITE. Large folding sheet in case *net* 2 6

=A Complete and Practical Treatise on Plumbing

and Sanitation: Hot Water Supply, Warming

and Ventilation=, Steam Cooking, Gas,

Electric Light, Bells, *etc.*, with a complete

Schedule of Prices of Plumber's Work. By

G. B. DAVIS and F. DYE. 2 vols. 637 illus. and

21 folding plates, 830 pp. 4to, cloth. (*1899*) *net* 1 10 0

=Standard Practical Plumbing.= By P. J. DAVIES.

Vol. I. Fourth edition, 768 illus. 355 pp. royal

8vo. (*1905*) *net* 7 6

Vol. II. Second edition, 953 illus. 805 pp.

(*1905*) *net* 10 6

Vol. III. 313 illus. 204 pp. (*1905*) *net* 5 0

=Conservancy, or Dry Sanitation versus Water

Carriage.= By J. DONKIN. 7 plates, 33 pp. 8vo,

sewed. (1906) *net* 1 0

=Sewage Disposal Works=, their Design and Construction.

By W. C. EASDALE. With 160 illus.

264 pp. demy 8vo. (1910) *net* 10 6

=House Drainage and Sanitary Plumbing.= By

W. P. GERHARD. Tenth edition, 6 illus. 231 pp.

18mo, boards. (New York, 1902) *net* 2 0

=Central Station Heating.= By B. T. GIFFORD. 37

illus. 208 pp. 8vo, leather. (New York, 1912) *net* 17 0

=Housing and Town Planning Conference.=

Report of Conference held by the INSTITUTION

OF MUNICIPAL AND COUNTY ENGINEERS. Edited

by T. COLE, *Secretary*. 30 plates, 240 pp. demy

8vo. (1911) *net* 10 6

=Engineering Work in Towns and Cities.= By

E. MCCULLOCH. 44 illus. 502 pp. crown 8vo.

(New York, 1908) *net* 12 6

=The Treatment of Septic Sewage.= By G. W.

RAFTER. 137 pp. 18mo, boards. (New York,

1904) *net* 2 0

=Reports and Investigations on Sewer Air= and

Sewer Ventilation. By R. H. REEVES. 8vo, sewed.

(1894) 1 0

=The Law and Practice of Paving= Private Street

Works. By W. SPINKS. Fourth edition, 256 pp.

8vo. (1904) *net* 12 6

Chapter 89

STRUCTURAL DESIGN.

(*See* BRIDGES AND ROOFS.)

Chapter 90

TELEGRAPH CODES.

=New Business Code.= 320 pp. narrow 8vo. (Size
4-3/4 in. by 7-3/4 in. and 1/2 in. thick, and weight 10 oz.)

(*New York, 1909*) *net* 1 1 0

=Miners' and Smelters' Code= (formerly issued as
the =Master Telegraph Code=). 448 pp. 8vo,

limp leather, weight 14 oz. (*New York, 1899*) *net* 2 10 0

=Billionaire Phrase Code=, containing over two million
sentences coded in single words. 56 pp.

8vo, leather. (*New York, 1908*) *net* 6 6

Chapter 91

WARMING AND VENTILATION.

=Heat for Engineers.= By C. R. DARLING. Second edition, 110 illus. 430 pp. 8vo. (FINSBURY TECHNICAL MANUAL.) (1912) *net* 12 6

=Hot Water Supply.= By F. DYE. Fifth edition. New impression, 48 ill. 86 pp. cr. 8vo. (1910) *net* 3 0

=A Practical Treatise upon Steam Heating.= By F. DYE. 129 illus. 246 pp. demy 8vo. (1901) *net* 10 0

=Practical Treatise on Warming Buildings by Hot Water.= By F. DYE. 192 illus. 319 pp. 8vo. cloth. (1905) *net* 8 6

=Central Station Heating.= By B. T. GIFFORD. 37 illus. 208 pp. demy 8vo, leather. (*New York*, 1912) *net* 17 0

=Charts for Low Pressure Steam Heating.= By J. H. KINEALY. Small folio. (*New York*) 4 6

=Formulae and Tables for Heating.= By J. H.

KINEALY. 18 illus. 53 pp. 8vo. (*New York, 1899*) 3 6
 =Centrifugal Fans.= By J. H. KINEALY. 33 illus. 206
 pp. fcap. 8vo, leather. (*New York, 1905*) *net* 12 6
 =Mechanical Draft.= By J. H. KINEALY. 27 original
 tables and 13 plates, 142 pp. crown 8vo. (*New*
York, 1906) *net* 8 6
 =Theory and Practice of Centrifugal Ventilating
 Machines.= By D. MURGUE. 7 illus. 81 pp. 8vo.
 (*1883*) 5 0
 =Mechanics of Ventilation.= By G. W. RAFTER.
 Second edition, 143 pp. 18mo, boards. (*New York,*
1896) *net* 2 0
 =Principles of Heating.= By W. G. SNOW. 62 illus.
 161 pp. 8vo. (*New York, 1907*) *net* 8 6
 =Furnace Heating.= By W. G. SNOW. Fourth edition,
 52 illus. 216 pp. 8vo. (*New York, 1909*) *net* 6 6
 =Ventilation of Buildings.= By W. G. SNOW and T.
 NOLAN. 83 pp. 18mo, boards.
 (*New York, 1906*) *net* 2 0
 =Heating Engineers' Quantities.= By W. L. WHITE
 and G. M. WHITE. 4 plates, 33 pp. folio.
 (*1910*) *net* 10 6

Chapter 92

WATER SUPPLY.

(*See also* HYDRAULICS.)

=Potable Water and Methods of Testing Impurities.=

By M. N. BAKER. 97 pp. 18mo,
boards. (*New York, 1905*) *net* 2 0

=Manual of Hydrology.= By N. BEARDMORE. New
impression, 18 plates, 384 pp. 8vo. (*1906*) *net* 10 6

=Boiler Waters=, Scale, Corrosion and Fouling. By
W. W. CHRISTIE. 77 illus. 235 pp. 8vo, cloth.

(*New York, 1907*) *net* 12 6

=Water Softening and Purification.= By H. COLLET.

Second edition, 6 illus. 170 pp. crown 8vo.

(*1908*) *net* 5 0

=Treatise on Water Supply=, Drainage and Sanitary
Appliances of Residences. By F. COLYER. 100

pp. crown 8vo. (*1899*) *net* 1 6

=Purification of Public Water Supplies.= By J. W.

HILL. 314 pp. 8vo. (*New York, 1898*) 10 6

=Well Boring= for Water, Brine and Oil. By C. ISLER.
Second edition, 105 illus. 296 pp. 8vo. (1911) *net* 10 6
=Method of Measuring Liquids Flowing through
Pipes by means of Meters of Small Calibre.=
By Prof. G. LANGE. 1 plate, 16 pp. 8vo, sewed *net* 0 6
=On Artificial Underground Water.= By G.
RICHERT. 16 illus. 33 pp. 8vo, sewed. (1900) *net* 1 6
=Notes on Water Supply= in new Countries. By F.
W. STONE. 18 plates, 42 pp. crown 8vo. (1888) 5 0
=The Principles of Waterworks Engineering.=
By J. H. T. TUDSBERY and A. W. BRIGHTMORE.
Third edition, 13 folding plates, 130 illus. 447 pp.
demy 8vo. (1905) *net* 11 0

Chapter 93

WORKSHOP PRACTICE.

FOR ART WORKERS AND MECHANICS.

=A Handbook for Apprenticed Machinists.= By

O. J. BEALE. Second edition, 89 illus., 141 pp.

16mo. (*New York, 1901*) *net* 2 6

=Practice of Hand Turning.= By F. CAMPIN.

Third edition, 99 illus. 307 pp. crown 8vo. (*1883*) 3 6

=Artistic Leather Work.= By E. ELLIN CARTER.

6 plates and 21 illus. in text, xii + 51 pp. crown

8vo. (*1912*) *net* 2 6

=Calculation of Change Wheels for Screw Cutting

on Lathes.= By D. DE VRIES. 46 illus. 83 pp.

8vo. (*1908*) *net* 3 0

=Milling Machines and Milling Practice.= By

D. DE VRIES. With 536 illus. 464 pp. medium

8vo. (*1910*) *net* 14 0

=French-Polishers' Manual.= By a French-Polisher.

New impression, 31 pp. royal 32mo, sewed.

(1912) *net* 0 6

=Art of Copper-Smithing.= By J. FULLER. Fourth edition, 483 illus. 319 pp. royal 8vo. (*New York,*

1911) *net* 12 6

=Hand Forging and Wrought Iron Ornamental Ironwork.= By T. F. GOOGERTY. 122 illus. 197 pp. crown 8vo. (*New York, 1912*) *net* 4 6

=Saw Filing and Management of Saws.= By R. GRIMSHAW. New edition, 81 illus. 16mo. (*New York, 1906*) *net* 4 6

=Paint and Colour Mixing.= By A. S. JENNINGS. Fourth edition. 14 coloured plates, 190 pp. 8vo. (1910) *net* 5 0

=The Mechanician=: a Treatise on the Construction and Manipulation of Tools. By C. KNIGHT. Fifth edition, 96 plates, 397 pp. 4to. (1897) 18 0

=Turner's and Fitter's Pocket Book.= By J. LA NICCA. 18mo, sewed 0 6

=Tables for Engineers and Mechanics=, giving the values of the different trains of wheels required to produce Screws of any pitch. By LORD LINDSAY. Second edition, royal 8vo, oblong. 2 0

=Screw-cutting Tables.= By W. A. MARTIN. Seventh edition, royal 8vo, oblong *net* 1 0

=Metal Plate Work=, its Patterns and their Geometry, for the use of Tin, Iron and Zinc Plate Workers. By C. T. MILLIS. Fourth edition, 280 diagrams,

470 pp. crown 8vo. (1906) 9 0

=The Practical Handbook of Smithing and
Forging.= Engineers' and General Smiths' Work.

By T. MOORE. New impression, 401 illus. 248 pp.
crown 8vo. (1912) *net* 5 0

=Modern Machine Shop Construction=, equipment
and management. By O. E. PERRIGO. 208 illus.

343 pp. crown 4to. (*New York, 1906*) *net* 1 1 0

=Turner's Handbook on Screw-cutting=, Coning,
etc. By W. PRICE. New impression, fcap. 8vo.

(1912) *net* 0 6

=Introduction to Eccentric Spiral Turning.= By
H. C. ROBINSON. 12 plates, 23 illus. 48 pp. 8vo.

(1906) *net* 4 6

=Manual of Instruction in Hard Soldering.= By
H. ROWELL. Sixth edition, 7 illus. 66 pp. crown
8vo. (*New York, 1910*) *net* 3 0

=Forging, Stamping, and General Smithing.= By
B. SAUNDERS. 728 illus. ix + 428 pp. demy 8vo.

(1912) *net* 11 0

=Pocket Book on Boilermaking, Shipbuilding=, and
the Steel and Iron Trades in General. By M. J.
SEXTON. Sixth edition, New impression, 85 illus.

319 pp. royal 32mo, roan, gilt edges. (1912) *net* 5 0

=Power and its Transmission.= A Practical Handbook
for the Factory and Works Manager. By

T. A. SMITH. 76 pp. fcap. 8vo. (1910) *net* 2 0

=Spons' Mechanics' Own Book=: A Manual for

Handicraftsmen and Amateurs. Sixth edition,
New impression, 1430 illus. 720 pp. demy 8vo.
(1912) 6 0

Ditto ditto half French morocco 7 6

=Spens' Workshop Receipts for Manufacturers,
Mechanics and Scientific Amateurs.= New
and thoroughly revised edition, crown 8vo.
(1909) *each net* 3 0

Vol. I. ACETYLENE LIGHTING *to* DRYING.
223 illus. 532 pp.

Vol. II. DYEING *to* JAPANING. 259 illus.
540 pp.

Vol. III. JOINTING PIPES *to* PUMPS. 257
illus. 528 pp.

Vol. IV. RAINWATER SEPARATORS *to* WIRE
ROPES. 321 illus. 540 pp.

=Gauges at a Glance.= By T. TAYLOR. Second
edition, post 8vo, oblong, with tape converter.
(1900) *net* 5 0

=Simple Soldering=, both Hard and Soft. By E.
THATCHER. 52 illus. 76 pp. crown 8vo. (S. &
C. SERIES, No. 18.) (*New York, 1910*) *net* 1 6

=The Modern Machinist.= By J. T. USHER. Fifth
edition. 257 illus. 322 pp. 8vo. (*New York, 1904*) *net* 10 6

=Knots, Splices, and Rope-Work.= By A. H.

VERRILL. 148 illus. 102 pp. 12mo. (*New York,*
1912) *net* 3 0

=Practical Wood Carving.= By C. J. WOODSEND.

108 illus. 86 pp. 8vo. (*New York, 1897*) *net* 4 6

=American Tool Making= and Interchangeable Manufacturing.

By J. W. Woodworth. 600 illus.

544 pp. demy 8vo. (*New York, 1905*) *net* 17 0

Chapter 94

USEFUL TABLES.

See also CURVE TABLES, EARTHWORK, FOREIGN EXCHANGE, INTEREST TABLES, LOGARITHMS, *and* METRIC TABLES.

=Weights and Measurements of Sheet Lead.=

By J. ALEXANDER. 32mo, roan *net* 1 6

=Barlow's Tables of Squares=, Cubes, Square Roots,

Cube Roots and Reciprocals, of all Integer

Numbers from 1 to 10,000. Crown 8vo, leather

cloth *net* 4 0

=Tables of Squares.= Of every foot, inch and 1/16 of

an inch from 1/16 of an inch to 50 feet. By E. E.

BUCHANAN. Eleventh edition, 102 pp. 16mo,

limp. (*New York, 1912*) *net* 4 6

=Land Area Tables.= By W. CODD. On sheet

mounted on linen, in cloth case with explanatory

pamphlet. (*1910*) 3 6

=Tables of some of the Principal Speeds= occurring

in Mechanical Engineering, expressed in Metres

per second. By P. KEERAYEFF. 18mo, sewed *net* 0 6

=Calculating Scale.= A Substitute for the Slide Rule.

By W. KNOWLES. Crown 8vo, leather *net* 1 0

=Planimeter Areas.= Multipliers for various scales.

By H. B. MOLESWORTH. Folding sheet in cloth

case *net* 1 0

=Tables of Seamless Copper Tubes.= By I. O'TOOLE.

69 pp. oblong fcap. 8vo. (1908) *net* 3 6

=Steel Bar and Plate Tables.= Giving Weight per

Lineal Foot of all sizes of =L= and =T= Bars, Flat

Bars, Plates, Square, and Round Bars. By

E. READ. On large folding card. (1911) *net* 1 0

=Rownson's Iron Merchants' Tables= and Memoranda,

Weights and Measures. 86 pp. 32mo,

leather 3 6

=Spons' Tables and Memoranda for Engineers.=

By J. T. HURST, C.E. Twelfth edition, 278 pp.

64mo, roan, gilt edges. (1907) *net* 1 0

Ditto ditto in celluloid case *net* 1 6

=Optical Tables and Data=, for the use of Opticians.

By Prof. S. P. THOMPSON. Second edition, 130

pp. oblong 8vo. (1907) *net* 6 0

=Traverse Table=, showing Latitudes and Departure

for each Quarter degree of the Quadrant, and for

distances from 1 to 100, *etc.*; 18mo, boards *net* 2 0

=Fifty-four Hours' Wages Calculator.= By H. N.

WHITELAW. Second edition, 79 pp. 8vo. *net* 2 6

=Wheel Gearing.= Tables of Pitch Line Diameters,

etc. By A. WILDGOOSE and A. J. ORR. 175 pp.

fcap. 32mo. (1903) *net* 2 0

Chapter 95

MISCELLANEOUS.

=The Atmosphere=: Its Characteristics and Dynamics.

By F. J. B. CORDEIRO. 35 illus. 129 pp.

crown 4to. (*New York, 1910*) *net* 10 6

=Popular Engineering.= By F. DYE. 704 illus. 477

pp. crown 4to. (*1895*) *net* 5 0

=The Phonograph=, and how to construct it. By

W. GILLETT. 6 folding plates, 87 pp. crown 8vo.

(*1892*) 5 0

=Engineering Law.= By A. HARING. Demy 8vo,

cloth. (*New York.*)

Vol. I. THE LAW OF CONTRACT. 518 pp. (*1911*) *net* 17 0

=The Gyroscope, an Experimental Study.= By

V. E. JOHNSON. 34 illus. 40 pp. crown 8vo. (S. &

C. SERIES, No. 22.) (*1911*) *net* 1 6

=Particulars of Dry Docks=, Wet Docks, Wharves,

etc. on the River Thames. By C. N. JORDAN.

Second edition, 7 coloured charts, 103 pp. oblong

8vo. (1904) *net* 2 6

=New Theories in Astronomy.= By W. STIRLING.

335 pp. demy 8vo. (1906) *net* 8 6

=The American Hardware Store.= A Manual of approved methods of arranging and displaying hardware. By R. R. WILLIAMS. 500 illus.

448 pp. royal 8vo. (*New York, 1896*) *net* 7 6

=Inventions, How to Protect, Sell and Buy Them.=

By F. WRIGHT. 118 pp. crown 8vo. (S. & C.

SERIES, No. 10.) (*New York, 1908*) *net* 1 6

=The Journal of the Iron and Steel Institute.=

Edited by G. C. LLOYD, *Secretary*.

Published Half-yearly, 8vo, cloth, 16_s._ *net*.

* * * * *

=Carnegie Scholarship Memoirs.=

Published Annually, 8vo, cloth.

* * * * *

=The Journal of the Institution of Electrical Engineers.=

Edited by P. F. ROWELL, *Secretary*.

* * * * *

=The Proceedings of the Institution of Municipal and County Engineers.=

Edited by THOMAS COLE, Assoc. M. Inst. C.E. *Secretary*.

Published Annually, 8vo, cloth, 21_s._ *net*.

* * * * *

=The Transactions of the Institution of Mining and Metallurgy.=

Edited by C. MCDERMID, *Secretary*.

Published Annually, boards, 21_s._ *net*, or half-bound, 25_s._ *net*.

* * * * *

=Transactions of the Institution of Gas Engineers.=

Edited by WALTER T. DUNN, *Secretary*.

Published Annually, 8vo, cloth, 10_s._ 6_d._ net.

* * * * *

=Proceedings of the International Association for Testing Materials.=

(English Edition.)

* * * * *

=Transactions of the American Institute of Chemical Engineers.=

Published Annually, 8vo, cloth, 25_s._ net.

Chapter 96

LONDON: PRINTED BY WILLIAM CLOWES AND SONS, LIMITED.

* * * * *

Transcriber's Note: This book contains a dictionary plus a book advertisements section. The punctuation has been homogenized in the dictionary but not in the advertisements. The spelling of some names in the dictionary can differ between the French/English part and the English/French part; this has not been fixed.

The following typos have been fixed in the dictionary:

* p55: corrected “concassee” into “concassees”

("Route en pierres concassees")

* p68: corrected “Retard” into “Retard” ("Retard a l'allumage.")

Note de transcription: Ce livre contient un dictionnaire, plus une section publicites. La ponctuation a ete homogeneisee dans le dictionnaire, mais pas dans les publicites. L'ortographe de certains mots differe dans le dictionnaire entre les versions French/English et English/French; celle-ci n'a pas ete corrigeée.

Les erreurs suivantes ont ete corrigees:

* p55: corrige “concasses” en “concassees”

("Route en pierres concassees"),

* p68: corrige “Retard” en “Retard” ("Retard a l’allumage.").

Chapter 97

End of the Project Gutenberg EBook of English-French and French-English dictionary of the motor car, cycle, and boat, by Frederick Lucas

*** END OF THIS PROJECT GUTENBERG EBOOK ENGLISH-FRENCH DICTIONARY OF MOTOR CAR ***

***** This file should be named 41217.txt or 41217.zip *****
This and all associated files of various formats will be found in:

<http://www.gutenberg.org/4/1/2/1/41217/>

Produced by Marcia Brooks, Bibimbop, Hugo Voisard and the
Online Distributed Proofreading Team at <http://www.pgdp.net>
(This file was produced from images generously made available
by The Internet Archive)

Updated editions will replace the previous one—the old editions will be renamed.

Creating the works from public domain print editions means that no one owns a United States copyright in these works, so the Foundation (and you!) can copy and distribute it in the United States without permission and without paying copyright royalties. Special rules, set forth in the General Terms of Use part of this license, apply to copying and distributing Project Gutenberg-tm electronic works to protect the PROJECT GUTENBERG-tm concept and trademark. Project Gutenberg is a registered trademark, and may not be used if you charge for the eBooks, unless you receive specific permission. If you do not charge anything for copies of this eBook, complying with the rules is very easy. You may use this eBook for nearly any purpose such as creation of derivative works, reports, performances and research. They may be modified and printed and given away—you may do practically ANYTHING with public domain eBooks. Redistribution is subject to the trademark license, especially commercial redistribution.

*** START: FULL LICENSE ***

THE FULL PROJECT GUTENBERG LICENSE

PLEASE READ THIS BEFORE YOU DISTRIBUTE OR USE THIS WORK

To protect the Project Gutenberg-tm mission of promoting the free distribution of electronic works, by using or distributing this work (or any other work associated in any way with the phrase “Project Gutenberg”), you agree to comply with all the terms of the Full Project Gutenberg-tm License available with this file or online at

www.gutenberg.org/license.

Chapter 98

Section 1. General Terms of Use and Redistributing Project Gutenberg-tm electronic works

1.A. By reading or using any part of this Project Gutenberg-tm electronic work, you indicate that you have read, understand, agree to and accept all the terms of this license and intellectual property (trademark/copyright) agreement. If you do not agree to abide by all the terms of this agreement, you must cease using and return or destroy all copies of Project Gutenberg-tm electronic works in your possession. If you paid a fee for obtaining a copy of or access to a Project Gutenberg-tm electronic work and you do not agree to be bound by the terms of this agreement, you may obtain a refund from the person or entity to whom you paid the fee as set forth in paragraph 1.E.8.

1.B. “Project Gutenberg” is a registered trademark. It may only be used on or associated in any way with an electronic work by people who agree to be bound by the terms of this agreement. There are a few things that you can do with most

Project Gutenberg-tm electronic works even without complying with the full terms of this agreement. See paragraph 1.C below. There are a lot of things you can do with Project Gutenberg-tm electronic works if you follow the terms of this agreement and help preserve free future access to Project Gutenberg-tm electronic works. See paragraph 1.E below.

1.C. The Project Gutenberg Literary Archive Foundation ("the Foundation" or PGLAF), owns a compilation copyright in the collection of Project Gutenberg-tm electronic works. Nearly all the individual works in the collection are in the public domain in the United States. If an individual work is in the public domain in the United States and you are located in the United States, we do not claim a right to prevent you from copying, distributing, performing, displaying or creating derivative works based on the work as long as all references to Project Gutenberg are removed. Of course, we hope that you will support the Project Gutenberg-tm mission of promoting free access to electronic works by freely sharing Project Gutenberg-tm works in compliance with the terms of this agreement for keeping the Project Gutenberg-tm name associated with the work. You can easily comply with the terms of this agreement by keeping this work in the same format with its attached full Project Gutenberg-tm License when you share it without charge with others.

1.D. The copyright laws of the place where you are located also govern what you can do with this work. Copyright laws in most countries are in a constant state of change. If you are outside the United States, check the laws of your country in addition to the terms of this agreement before downloading, copying, displaying, performing, distributing or creating derivative works based on this work or any other Project Gutenberg-tm work. The Foundation makes no representations concerning the copyright status of any work in any country outside the United States.

1.E. Unless you have removed all references to Project Gutenberg:

1.E.1. The following sentence, with active links to, or other immediate access to, the full Project Gutenberg-tm License must appear prominently whenever any copy of a Project Gutenberg-tm work (any work on which the phrase "Project Gutenberg" appears, or with which the phrase "Project Gutenberg" is associated) is accessed, displayed, performed, viewed, copied or

distributed:

This eBook is for the use of anyone anywhere at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this eBook or online at www.gutenberg.org

1.E.2. If an individual Project Gutenberg-tm electronic work is derived from the public domain (does not contain a notice indicating that it is posted with permission of the copyright holder), the work can be copied and distributed to anyone in the United States without paying any fees or charges. If you are redistributing or providing access to a work with the phrase “Project Gutenberg” associated with or appearing on the work, you must comply either with the requirements of paragraphs 1.E.1 through 1.E.7 or obtain permission for the use of the work and the Project Gutenberg-tm trademark as set forth in paragraphs 1.E.8 or 1.E.9.

1.E.3. If an individual Project Gutenberg-tm electronic work is posted with the permission of the copyright holder, your use and distribution must comply with both paragraphs 1.E.1 through 1.E.7 and any additional terms imposed by the copyright holder. Additional terms will be linked to the Project Gutenberg-tm License for all works posted with the permission of the copyright holder found at the beginning of this work.

1.E.4. Do not unlink or detach or remove the full Project Gutenberg-tm License terms from this work, or any files containing a part of this work or any other work associated with Project Gutenberg-tm.

1.E.5. Do not copy, display, perform, distribute or redistribute this electronic work, or any part of this electronic work, without prominently displaying the sentence set forth in paragraph 1.E.1 with active links or immediate access to the full terms of the Project Gutenberg-tm License.

1.E.6. You may convert to and distribute this work in any binary, compressed, marked up, nonproprietary or proprietary form, including any word processing or hypertext form. However, if you provide access to or distribute copies of a Project Gutenberg-tm work in a format other than “Plain Vanilla ASCII” or other format used in the official version posted on the official Project Gutenberg-tm web site (www.gutenberg.org), you must,

at no additional cost, fee or expense to the user, provide a copy, a means of exporting a copy, or a means of obtaining a copy upon request, of the work in its original “Plain Vanilla ASCII” or other form. Any alternate format must include the full Project Gutenberg-tm License as specified in paragraph 1.E.1.

1.E.7. Do not charge a fee for access to, viewing, displaying, performing, copying or distributing any Project Gutenberg-tm works unless you comply with paragraph 1.E.8 or 1.E.9.

1.E.8. You may charge a reasonable fee for copies of or providing access to or distributing Project Gutenberg-tm electronic works provided that

- You pay a royalty fee of 20%

the use of Project Gutenberg-tm works calculated using the method

you already use to calculate your applicable taxes. The fee is owed to the owner of the Project Gutenberg-tm trademark, but he

has agreed to donate royalties under this paragraph to the Project Gutenberg Literary Archive Foundation. Royalty payments

must be paid within 60 days following each date on which you prepare (or are legally required to prepare) your periodic tax returns. Royalty payments should be clearly marked as such and

sent to the Project Gutenberg Literary Archive Foundation at the

address specified in Section 4, “Information about donations to the Project Gutenberg Literary Archive Foundation.”

- You provide a full refund of any money paid by a user who notifies

you in writing (or by e-mail) within 30 days of receipt that s/he does not agree to the terms of the full Project Gutenberg-tm License. You must require such a user to return or

destroy all copies of the works possessed in a physical medium and discontinue all use of and all access to other copies of Project Gutenberg-tm works.

- You provide, in accordance with paragraph 1.F.3, a full refund of any

money paid for a work or a replacement copy, if a defect in the electronic work is discovered and reported to you within 90 days of receipt of the work.

- You comply with all other terms of this agreement for free distribution of Project Gutenberg-tm works.

1.E.9. If you wish to charge a fee or distribute a Project Gutenberg-tm electronic work or group of works on different terms than are set forth in this agreement, you must obtain permission in writing from both the Project Gutenberg Literary Archive Foundation and Michael Hart, the owner of the Project Gutenberg-tm trademark. Contact the Foundation as set forth in Section 3 below.

1.F.

1.F.1. Project Gutenberg volunteers and employees expend considerable effort to identify, do copyright research on, transcribe and proofread public domain works in creating the Project Gutenberg-tm collection. Despite these efforts, Project Gutenberg-tm electronic works, and the medium on which they may be stored, may contain “Defects,” such as, but not limited to, incomplete, inaccurate or corrupt data, transcription errors, a copyright or other intellectual property infringement, a defective or damaged disk or other medium, a computer virus, or computer codes that damage or cannot be read by your equipment.

1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES — Except for the “Right of Replacement or Refund” described in paragraph 1.F.3, the Project Gutenberg Literary Archive Foundation, the owner of the Project Gutenberg-tm trademark, and any other party distributing a Project Gutenberg-tm electronic work under this agreement, disclaim all liability to you for damages, costs and expenses, including legal fees. YOU

AGREE THAT YOU HAVE NO REMEDIES FOR NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT THOSE PROVIDED IN PARAGRAPH 1.F.3. YOU AGREE THAT THE FOUNDATION, THE TRADEMARK OWNER, AND ANY DISTRIBUTOR UNDER THIS AGREEMENT WILL NOT BE LIABLE TO YOU FOR ACTUAL, DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE OR INCIDENTAL DAMAGES EVEN IF YOU GIVE NOTICE OF THE POSSIBILITY OF SUCH DAMAGE.

1.F.3. LIMITED RIGHT OF REPLACEMENT OR REFUND

— If you discover a defect in this electronic work within 90 days of receiving it, you can receive a refund of the money (if any) you paid for it by sending a written explanation to the person you received the work from. If you received the work on a physical medium, you must return the medium with your written explanation. The person or entity that provided you with the defective work may elect to provide a replacement copy in lieu of a refund. If you received the work electronically, the person or entity providing it to you may choose to give you a second opportunity to receive the work electronically in lieu of a refund. If the second copy is also defective, you may demand a refund in writing without further opportunities to fix the problem.

1.F.4. Except for the limited right of replacement or refund set forth in paragraph 1.F.3, this work is provided to you ‘AS-IS’, WITH NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

1.F.5. Some states do not allow disclaimers of certain implied warranties or the exclusion or limitation of certain types of damages. If any disclaimer or limitation set forth in this agreement violates the law of the state applicable to this agreement, the agreement shall be interpreted to make the maximum disclaimer or limitation permitted by the applicable state law. The invalidity or unenforceability of any provision of this agreement shall not void the remaining provisions.

1.F.6. INDEMNITY — You agree to indemnify and hold the Foundation, the trademark owner, any agent or employee of the Foundation, anyone providing copies of Project Gutenberg-tm

electronic works in accordance with this agreement, and any volunteers associated with the production, promotion and distribution of Project Gutenberg-tm electronic works, harmless from all liability, costs and expenses, including legal fees, that arise directly or indirectly from any of the following which you do or cause to occur: (a) distribution of this or any Project Gutenberg-tm work, (b) alteration, modification, or additions or deletions to any Project Gutenberg-tm work, and (c) any Defect you cause.

Chapter 99

Section 2. Information about the Mission of Project Gutenberg-tm

Project Gutenberg-tm is synonymous with the free distribution of electronic works in formats readable by the widest variety of computers including obsolete, old, middle-aged and new computers. It exists because of the efforts of hundreds of volunteers and donations from people in all walks of life.

Volunteers and financial support to provide volunteers with the assistance they need are critical to reaching Project Gutenberg-tm's goals and ensuring that the Project Gutenberg-tm collection will remain freely available for generations to come. In 2001, the Project Gutenberg Literary Archive Foundation was created to provide a secure and permanent future for Project Gutenberg-tm and future generations. To learn more about the Project Gutenberg Literary Archive Foundation and how your efforts and donations can help, see Sections 3 and 4 and the Foundation information page at www.gutenberg.org

Chapter 100

Section 3. Information about the Project Gutenberg Literary Archive Foundation

The Project Gutenberg Literary Archive Foundation is a non profit 501(c)(3) educational corporation organized under the laws of the state of Mississippi and granted tax exempt status by the Internal Revenue Service. The Foundation's EIN or federal tax identification number is 64-6221541. Contributions to the Project Gutenberg Literary Archive Foundation are tax deductible to the full extent permitted by U.S. federal laws and your state's laws.

The Foundation's principal office is located at 4557 Melan Dr. S. Fairbanks, AK, 99712., but its volunteers and employees are scattered throughout numerous locations. Its business office is located at 809 North 1500 West, Salt Lake City, UT 84116, (801) 596-1887. Email contact links and up to date contact information can be found at the Foundation's web site and official page at www.gutenberg.org/contact

For additional contact information:

Dr. Gregory B. Newby

Chief Executive and Director

gbnewby@pglaf.org

Section 4. Information about Donations to the Project Gutenberg

Literary Archive Foundation

Project Gutenberg-tm depends upon and cannot survive without wide spread public support and donations to carry out its mission of increasing the number of public domain and licensed works that can be freely distributed in machine readable form accessible by the widest array of equipment including outdated equipment. Many small donations (\$1 to \$5,000) are particularly important to maintaining tax exempt status with the IRS.

The Foundation is committed to complying with the laws regulating charities and charitable donations in all 50 states of the United States. Compliance requirements are not uniform and it takes a considerable effort, much paperwork and many fees to meet and keep up with these requirements. We do not solicit donations in locations where we have not received written confirmation of compliance. To SEND DONATIONS or determine the status of compliance for any particular state visit www.gutenberg.org/donate

While we cannot and do not solicit contributions from states where we have not met the solicitation requirements, we know of no prohibition against accepting unsolicited donations from donors in such states who approach us with offers to donate.

International donations are gratefully accepted, but we cannot make any statements concerning tax treatment of donations received from outside the United States. U.S. laws alone swamp our small staff.

Please check the Project Gutenberg Web pages for current donation methods and addresses. Donations are accepted in a number of other ways including checks, online payments and credit card donations. To donate, please visit: www.gutenberg.org/donate

Section 5. General Information About Project Gutenberg-tm electronic works.

Professor Michael S. Hart was the originator of the Project Gutenberg-tm concept of a library of electronic works that could

be freely shared with anyone. For forty years, he produced and distributed Project Gutenberg-tm eBooks with only a loose network of volunteer support.

Project Gutenberg-tm eBooks are often created from several printed editions, all of which are confirmed as Public Domain in the U.S. unless a copyright notice is included. Thus, we do not necessarily keep eBooks in compliance with any particular paper edition.

Most people start at our Web site which has the main PG search facility:

www.gutenberg.org

This Web site includes information about Project Gutenberg-tm, including how to make donations to the Project Gutenberg Literary Archive Foundation, how to help produce our new eBooks, and how to subscribe to our email newsletter to hear about new eBooks.